

Figure 1. Schematic structure of CeB expression vector

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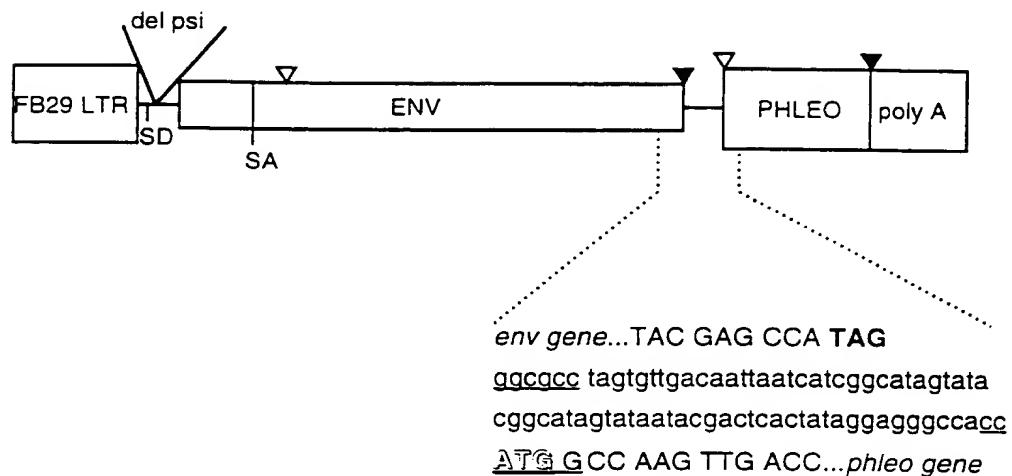


Figure 2. Schematic structure of FBdelPASF expression vector

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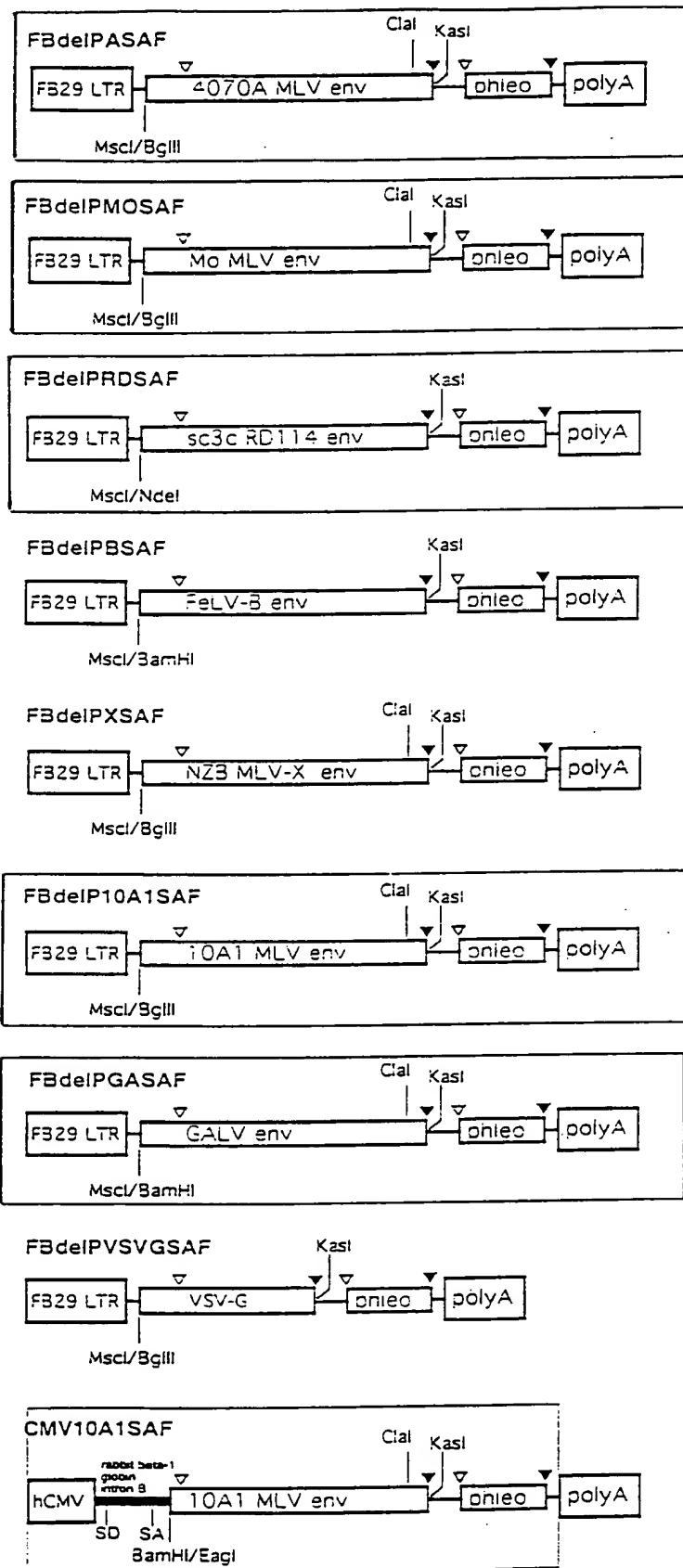


Figure 3. Schematic structure of env expression vectors  
SUBSTITUTE SHEET (RULE 26)

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NGAGCTCAGGACAGGTAGAAGAATGAATAGAACAAATAAAAGAGACCCCTACTAAATTGA 60  
 CCTTAGAGACTGGCTTAAAGATTGGAGACGCCCTCTATCTCTGGCTTGTAAAGAGCCA 120  
 GAAATACGCCAACCGTTTCGGCTCACCCCCATATGAAATCCTTATGGGGGACCCCCCCC 180  
 CTTGTCAACCTGCTCAATTCTCTCCCCCTCCGATCCTAAGACTGATTACAAGCCC 240  
 GACTAAAAGGGCTGCAAGGCGTGCAGGCCAAATCTGGACACCCCTGGCCGAATTGTACC 300  
 GGCCAGGACATCCACAAACTAGCCACCCATTCAAGGTGGAGACTCCGTGTACGTCCGGC 360  
 GGCACCGCTCTCAAGGATTGGAGCCTCGTTGAAAGGGACCTACATCGTCTGTCGACCA 420  
 CGCCCCACGCCATAAAGGTTGACGGGATCGCCGCTGGATTACGCATCGCACGCCAAGG 480  
 CAGCCCCAAAACCCCTGGACCAGAAACTCCAAAACCTGGAAGCTCCGCCGTTGGAGA 540  
 ACCCTCTTAAGATAAGACTCTCCGTGTACTGCTAATCCACCTGTCCCTGTACTAA 600  
 CCCAAAATGAAAATCCTAACAGGAATGGTCAATTATGTAGCCTAATAATAGTCGGCA 660  
 GGGTTTGACGACCCCCGCAAGGCTATCGCATTAGTACAAAAACACATGGTAAACCATGC 720  
 GAATGCAGCGGAGGGCAGGTATCCGAGGCCACCAGAACTCCATCCAACAGGTAACTTGC 780  
 CCAGGCAAGACGGCTACTTAATGACCAACCAAAATGAAATGCAGAGTCACTCCAAA 840  
 ATCTCACCTAGGGGGAGAACTCCAGAACTGCCCCCTGTAACACTTCCAGGACTCGATG 900  
 CACAGTTCTGTTAATCTGAATACCGGCAATGCAGGCCATTAAAGACATACTACACG 960  
 GCCACCTTGCTTAAACACGGTCTGGGAGCCTCAACGAGGTACAGATATTACAAAACCC 1020  
 AATCAGCTCCTACAGTCCCCTGTAGGGCTCTATAAAATCAGCCGTTGCTGGAGTGCC 1080  
 ACAGCCCCATCCATATCTCGATGGTGGAGGACCCCTCGATAACTAAGAGAGTGTGGACA 1140  
 GTCCAAAAAAGGCTAGAACAAATTCTAGGCTATGACTCCTGAACCTCAATACCACCC 1200  
 TTAGCCCTGCCAAAGTCAGAGATGACCTTAGCCTGATGCACGGACTTTGATATCCTG 1260  
 AATACCACTTTAGGTTACTCCAGATGTCCAATTAGCCTGCCAAGATTGTTGGCTC 1320  
 TGTTAAAATAGGTACCCCTACCCCTTCTGCGATAACCAACTCCCTTTAACCTACTCC 1380  
 CTAGCAGACTCCCTAGCGAATGCCCTGTCAAGATTATACCTCCCTTGTGGTCAACCG 1440  
 ATGCAGTTCTCCAACTCGTCTGTTATCTTCCCTTCATTAACGATAACGGAACAAATA 1500  
 GACTTAGGTGCAGTCACTTACTAACACTGCACCTCTGTAGCCAATGTCACTGCTTTA 1560  
 TGTGCCCTAAACGGGTCACTTCTGTGGAAATAACATGGCATAACACCTATTACCC 1620  
 CAAAACGGACCAGACTTGCCTCAAGCCTCCCTCCCCGACATTGACATCAACCCG 1680  
 GGGGATGAGGCCAGTCCCCATTCCGCATTGATCATTATACATAGACCTAACGAGCT 1740  
 GTACAGTTCATCCCTTACTAGCTGGACTGGGAATCACCGCAGCATTCAACCCGGAGCT 1800  
 ACAGGCCTAGGTGTCCGTACCCAGTATAACAAATTATCCCACAGTTAATATCTGAT 1860  
 GTCCAAGTCTTATCCGGTACCATACAAGATTACAAGACCAGGTAGACTCGTTAGCTGAA 1920  
 GTAGTTCTCCAAAATAGGAGGGACTGGACCTACTAACGGCAGAACAGGAGGAATTGT 1980  
 TTAGCCTTACAAGAAAATGTTTATGCTAACAAAGTCAGGAATTGTGAGAAACAAA 2040  
 ATAAGAACCTACAAGAAGAATTACAAAAACGCAGGGAAAGCCTGGCAACCAACCCCTTC 2100  
 TGGACCGGGCTGCAGGGCTTCTCCGTACCTCCCTACCTCTGGGACCCCTACTCACC 2160  
 CTCCTACTCATACCAACATTGGGCCATCGCTTTCAGTCGCTCATGGCCTTCACTTAAT 2220  
 GATAGACTTAATGTTGTACATGCCATGGTGTGGCCAGCAATACCAAGCACTCAAAGCT 2280  
 GAGGAAGAAGCTCAGGATTGAGCTCCGGACAAAAGCAGGGGGAAATGAGAAGTCAGAA 2340  
 CCCCCCACCTTGCTACATAAAATAACCGCTTCACTTCAGTCGCTTGTAAACGCTTATGCG 2400  
 CCCCCACCTAGCCGGAAAGTCCCCAGCCGCTACGCAACCCGGGGGGGGAGTTGCATCAGC 2460  
 CGTCGCAACCCGGGCTCCGAGTTGCATCAGCCGAAAGAAACTCATTCCCAAGCTT 2518

Fig. 4

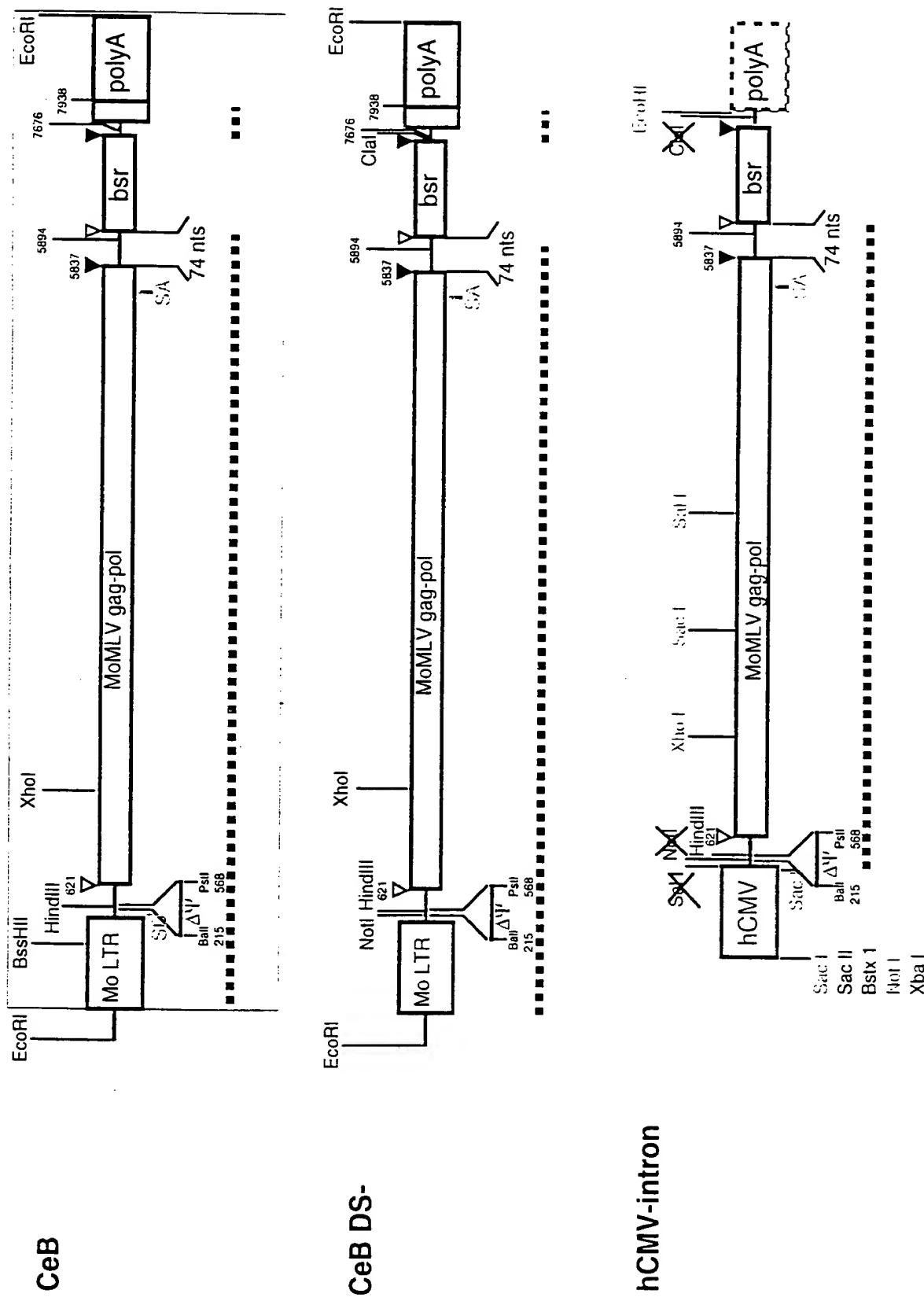


Figure 5. Genetic structure of gag-pol constructs (page 1/3)

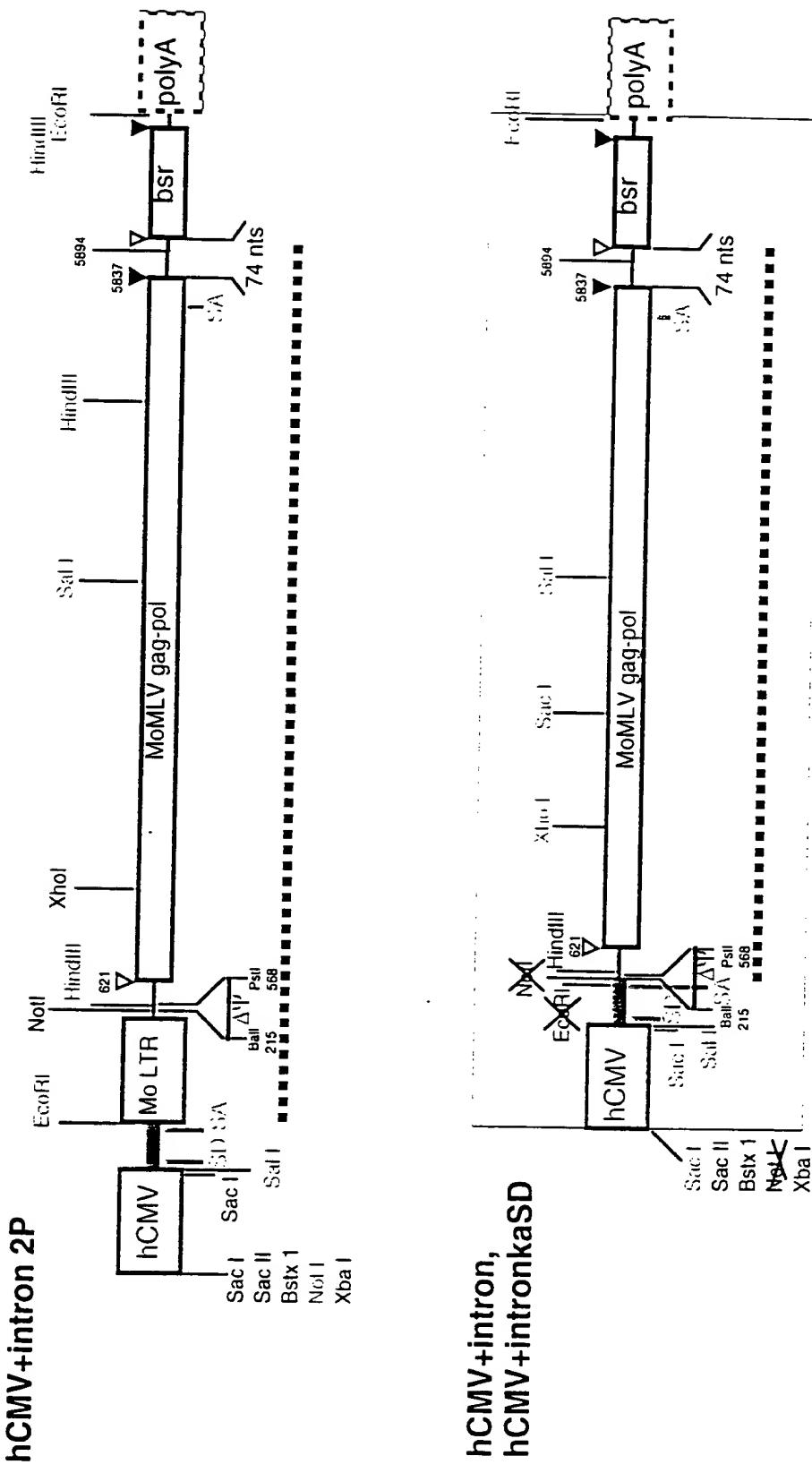


Figure 5. Genetic structure of gag-pol constructs (page 2/3)

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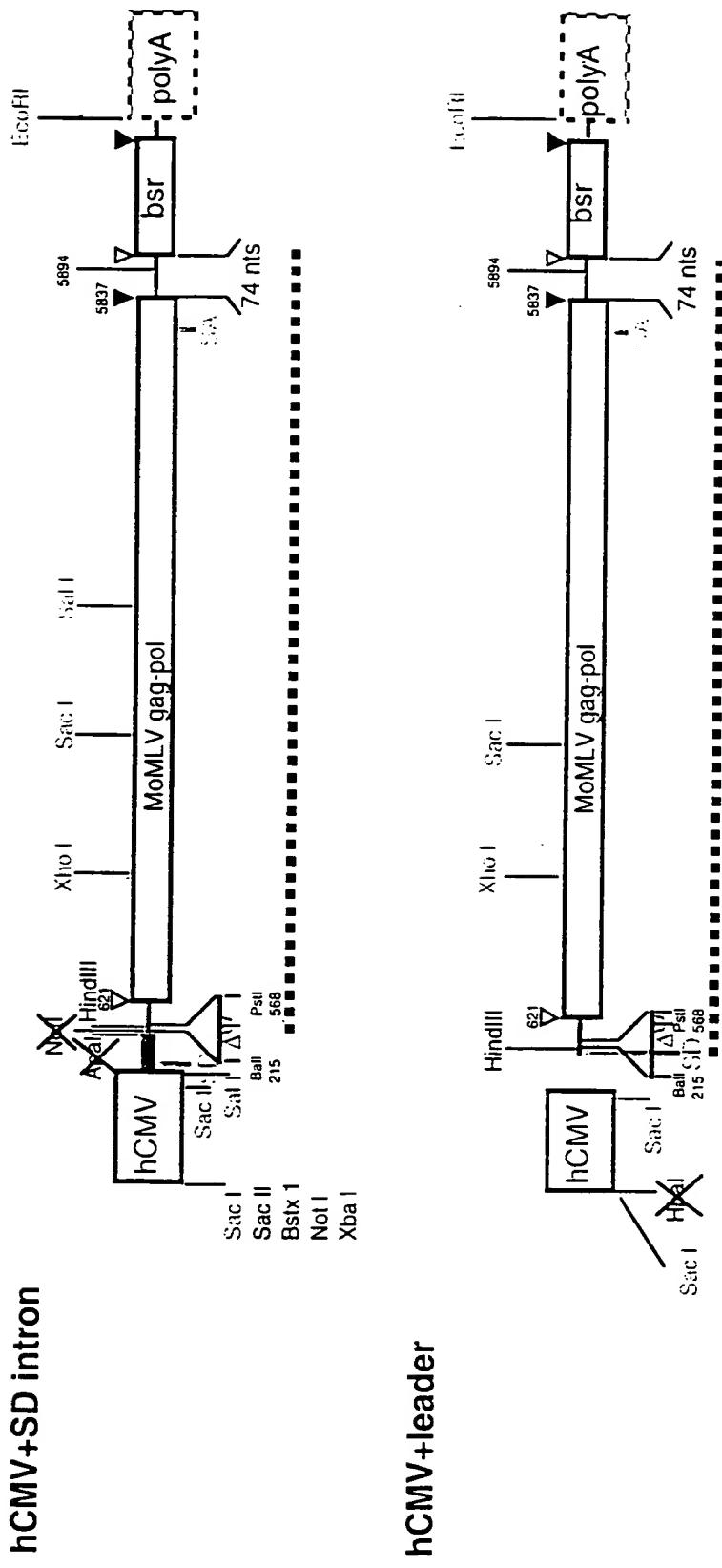


Figure 5. Genetic structure of gag-pol constructs (page 3/3)

Figure 6. CeB Sequence

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1

AATGAAAGAC	CCCACCTGTA	GGTTGGCAA	GCTAGCTTAA	GTAACGCCAT	TTTGCAGGC	60
ATGGAAAAAT	ACATAACTGA	GAATAGAGAA	GTTCAGATCA	AGGTCAGGAA	CAGATGGAAC	120
AGCTGAATAT	GGGCCAAACA	GGATATCTGT	GGTAAGCAGT	TCCTGCCCG	GCTCAGGGCC	180
AAGAACAGAT	GGAACAGCTG	AATATGGCC	AAACAGGATA	TCTGTGGTAA	GCAGTTCCGT	240
CCCCGGCTCA	GGGCCAAGAA	CAGATGGTCC	CCAGATGCGG	TCCAGCCCTC	AGCAGTTCT	300
AGAGAACCAT	CAGATGTTTC	CAGGGTGCC	CAAGGACCTG	AAATGACCTC	GTGCCTTATT	360
TGAACTAAC	AATCAGTTCG	CTTCTCGCTT	CTGTCGCGC	GCTTCTGCTC	CCCGAGCTCA	420
ATAAAAGAGC	CCACAAACCC	TCACTCGGGG	CGCCAGTCCT	CCGATTGACT	GAGTCGCCCG	480
GGTACCCGTG	TATCCAATAA	ACCCCTTGTG	AGTTCATCC	GACTTGTGGT	CTCGCTGTC	540
CTTGGGAGGG	TCTCCTCTGA	GTGATTGACT	ACCCGTCAGC	GGGGTCTTT	CATTGGGGG	600
CTCGTCCGGG	ATCGGGAGAC	CCCTGCCAG	GGACCACCGA	CCCACCAACG	GGAGGTAAGC	660
TGGAAGCTTC	TGCAGCATCG	TTCTGTGTTG	TCTCTGTCTG	ACTGTGTTTC	TGTATTGTC	720
TGAGAATATG	GGCCAGACTG	TTACCACTCC	CTTAAGTTG	ACCTTAGGTC	ACTGGAAAGA	780
TGTGAGCGG	ATCGCTACA	ACCACTCGGT	AGATGTCAAG	AAGAGACGTT	GGGTTACCTT	840
CTGCTCTGCA	GAATGGCCAA	CCTTTAACGT	CGGATGGCCG	CGAGACGGCA	CCTTTAACCG	900
AGACCTCATC	ACCCAGGTTA	AGATCAAGGT	CTTTTCACCT	GGCCCGCATG	GACACCCAGA	960
CCAGGTCCCC	TACATCGTGA	CCTGGGAAGC	CTTGGCTTTT	GACCCCCCTC	CTGGGTCAA	1020
CCCTTTGTA	CACCCCTAACG	CTCCGCCCTC	TCTCTCTTCA	TCCGCCCCGT	CTCTCCCCCT	1080
TGAACCTCCT	CGTTCGACCC	CGCCTCGATC	CTCCCTTTAT	CCAGCCCTCA	CTCCTTCTCT	1140
AGGCGCCAAA	CCTAACACCTC	AAGTTCTTC	TGACAGTGGG	GGGCGCTCA	TCGACCTACT	1200
TACAGAAGAC	CCCCCGCCTT	ATAGGGACCC	AAGACCAACCC	CCTTCCGACA	GGGACGGAAA	1260
TGGTGGAGAA	GCGACCCCTG	CGGGAGAGGC	ACCGGACCCC	TCCCCAATGG	CATCTCGCCT	1320
ACGTGGGAGA	CGGGAGCCCC	CTGTGGCCGA	CTCCACTACC	TCGCAGGCAT	TCCCCCTCCG	1380
CGCAGGAGGA	AACGGACAGC	TTCAATACTG	GCCGTTCTCC	TCTTCTGACC	TTTACAACGT	1440
GAAAAATAAT	AACCCCTCTT	TTTCTGAAGA	TCCAGGTAAA	CTGACAGCTC	TGATCGAGTC	1500
TGTTCTCATC	ACCCATCAGC	CCACCTGGGA	CGACTGTCA	CAGCTGTTGG	GGACTCTGCT	1560
GACCGGAGAA	GAAAACAAC	GGGTGCTCTT	AGAGGCTAGA	AAGGCGTGC	GGGGCGATGA	1620
TGGGCGCCCC	ACTCAACTGC	CCAATGAAGT	CGATGCCGCT	TTTCCCTCTG	AGCGCCCAAGA	1680
CTGGGATTAC	ACCACCCAGG	CAGGTAGGAA	CCACCTAGTC	CACTATCGCC	AGTTGCTCCT	1740
AGCGGGTCTC	CAAAACCGCG	GCAGAAGCCC	CACCAATTG	GCCAAGGTA	AAGGAATAAC	1800
ACAAGGGCCC	AATGAGTCTC	CCTCGGCCCT	CCTAGAGAGA	CTTAAGGAAG	CCTATCGCAG	1860
GTACACTCCT	TATGACCCCTG	AGGACCCAGG	GCAAGAAACT	AATGTGCTA	TGTCTTCAT	1920
TTGGCAGTCT	GCCCCAGACA	TTGGGAGAAA	GTTAGAGAGG	TTAGAAGATT	AAAAAAACAA	1980
GACGCTTGGA	GATTGGTTA	GAGAGGCAGA	AAAGATCTT	AATAAACGAG	AAACCCCGGA	2040
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GGATGAGCGA	AAAGAGAAAG	AAAGAGATCG	TAGGAGACAT	AGAGAGATGA	GCAAGCTATT	2160
GGCCACTGTC	GTTAGTGGAC	AGAAACAGGA	TAGACAGGG	GGAGAACGAA	GGAGGTCCCC	2220
ACTCGATCGC	GACCACTGTG	CCTACTGCAA	AGAAAAGGGG	CACTGGGCTA	AAGATTGTC	2280
CAAGAACCA	CGAGGACCTC	GGGGACCAAG	ACCCAGACCC	TCCCTCTGAA	CCCTAGATGA	2340
CTAGGGAGGT	CAGGGTCAGG	AGCCCCCCCC	TGAACCCAGG	ATAACCTCA	AACTGGGGGG	2400
GCAACCGTC	ACCTTCTGG	TAGATACTGG	GGCCCAACAC	TCCGTGCTGA	CCCAAATCC	2460
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CTGGACCACG	GATCGAAAG	TACATCTAGC	TACCGTAAG	GTCACCCACT	CTTCTCTCCA	2580
TGTACCAGAC	TGTCCCTATC	CTCTGTTAGG	AAGAGATTG	CTGACTAAC	AAAAGCCCCA	2640
AATCCACTTT	GAGGGATCAG	GAGCTCAGGT	TATGGGACCA	ATGGGCAGC	CCCTGCAAGT	2700
GTTGACCCCTA	AATATAGAAG	ATGAGCATCG	GCTACATGAG	ACCTAAAAG	AGCCAGATGT	2760
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GGGACTGGCA	GTCGCCAAG	CTCCTCTGAT	CATACTCTG	AAAGCAACCT	CTACCCCCGT	2880
GTCATAAAAA	CAATACCCCA	TGTCAACAGA	AGCCAGACTG	GGGATCAAGC	CCACACATACA	2940
GAGACTGTTG	GACCAAGGAA	TACTGGTACC	CTGCCAGTCC	CCCTGAAACA	CCCCCCCTGCT	3000
ACCCGTTAACG	AAACCAAGGGA	CTAATGATTA	TAGGCCTGTC	CAGGATCTGA	GAGAAGTCAA	3060
CAAGCGGGTG	GAAGACATCC	ACCCCAACCGT	GCCCAACCC	TACAACCTCT	TGAGCGGGCT	3120
CCCACCGTC	CACCACTGGT	ACACTGTGCT	TGATTAAAG	GATGCC	TTTCTGCTGAG	3180
ACTCCACCCCC	ACCAGTCAGC	CTCTCTTCGC	CTTGAGTGG	AGAGATCCAG	AGATGGGAAT	3240
CTCAGGACAA	TTGACCTGGA	CCAGACTCCC	ACAGGGTTTC	AAAAACAGTC	CCACCCCTGTT	3300
TGATGAGGCA	CTGACAGAG	ACCTAGCAGA	CTTCCGGATC	CAGCACCCAG	ACTTGATCCT	3360
GCTACAGTAC	GTGGATGACT	TACTGCTGGC	CGCCACTTCT	GAGCTAGACT	GCCAACAAGG	3420
TACTCGGGCC	CTGTTACAAA	CCCTAGGGAA	CCTCGGGTAT	CGGGCTCGG	CCAAAGAAAGC	3480
CCAAATTTCG	CAGAACACAG	TCAAGTATCT	GGGTATCTT	CTAAAAGAGG	GTCAAGAGATG	3540
GCTGACTGAG	GCCAGGGAAAG	AGACTGTGAT	GGGGCAGCT	ACTCCGAAGA	CCCTCTGACA	3600
ACTAAGGGAG	TTCCTAGGG	CGGCAGGCTT	CTGTCGCTC	TGGATCCCTG	GGTTTGAGA	3660
AATGGCAGCC	CCCTTGTACC	CTCTCACCAA	AACGGGGACT	CTGTTAATT	GGGGCCCAGA	3720
CCAACAAAAG	GCCTATCAAG	AAATCAAGCA	AGCTCTTCTA	ACTGCCAG	CCCTGGGGTT	3780
GCCAGATTG	ACTAAGCCCT	TTGAACCTTT	TGTCGACGAG	AAGCAGGGCT	ACGCCAAAGG	3840
TGTCCTAACG	CAAAAACCTGG	GACCTTGGCG	TCGGCCGGTG	GCCTACCTGT	CCAAAAGACT	3900
AGACCCAGTA	GCAGCTGGGT	GGCCCCCTTG	CCTACGGATG	GTAGCAGCCA	TTGCGTACT	3960
GACAAAGGAT	GCAGGCAAGC	TAACCATGGG	ACAGCCACTA	GTCATTCTGG	CCCCCCATGC	4020
AGTAGAGGCA	CTAGTCAAAC	AACCCCCCGA	CCGCTGGCTT	TCCAACGCC	GGATGACTCA	4080

Figure 6. CeB Sequence

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CTATCAGGCC	TTGCTTTGG	ACACGGACCG	GGTCCAGTTC	GGACCCGTGG	TAGCCCTGAA	4140
CCCGGCTACG	CTGCTCCCAC	TGCCTGAGGA	AGGGCTGCAA	CACAACGTCC	TTGATATCCT	4200
GGCCGAACCC	CACGGAACCC	GACCCGACCT	AACGGACCAAG	CCGCTCCCAG	ACGCCGACCA	4260
CACCTGGTAC	ACGGATGGAA	GCAGTCTCTT	ACAAGAGGGAA	CAGCGTAAGG	CGGGAGCTGC	4320
GGTGACCACC	GAGACCGAGG	TAATCTGGC	TAAAGCCCTG	CCAGCCGGGA	CATCCGCTCA	4380
GCGGGCTGAA	CTGATAGCAC	TCACCCAGGC	CCTAAAGATG	GCAGAAGGTA	AGAAGCTAAA	4440
TGTTTATACT	GATAGCCGTT	ATGCTTTGC	TACTGCCAT	ATCCATGGAG	AAATATACAG	4500
AAGGCGTGGG	TTGCTCACAT	CAGAAGGCAA	AGAGATCAA	AATAAAAGACG	AGATCTTGGC	4560
CCTACTAAAA	GCCCTCTTTC	TGCCCAAAG	ACTTAGCATA	ATCCATTGTC	CAGGACATCA	4620
AAAGGGACAC	AGCGCCGAGG	CTAGAGGCAA	CCGGATGGCT	GACCAAGCGG	CCCGAAAGGC	4680
AGCCATCACA	GAGACTCCAG	ACACCTCTAC	CCTCCCTCAT	GAAAATTCTAT	CACCCCTACAC	4740
CTCAGAACAT	TTTCATTACA	CAGTGAATG	TATAAAGGAC	CTAACCAAGT	TGGGGGCCAT	4800
TTATGATAAA	ACAAAGAAGT	ATTGGGTCTA	CCAAGGAAAA	CCTGTGATGC	CTGACCAGTT	4860
TACTTTGAA	TTATTAGACT	TTCTTCATCA	GCTGACTCAC	CTCAGCTTCT	CAAAAATGAA	4920
GGCTCTCCTA	GAGAGAAGCC	ACAGTCCCTA	CTACATGCTG	AACCGGGATC	GAACACTCAA	4980
AAATATCACT	GAGACCTGCA	AAGCTGTGC	ACAAGTCAAC	GCCAGCAAGT	CTGCCGTTAA	5040
ACAGGGAAC	AGGGTCCCGG	GGCATCGGCC	CGGCACTCAT	TGGGAGATCG	ATTTCACCGA	5100
GATAAAGCCC	GGATTGTATG	GCTATAAATA	TCTTCTAGTT	TTTATAGATA	CCTTTCTGG	5160
CTGGATAGAA	GCCTTCCCAA	CCAAGAAAGA	AACCGCCAAG	GTCGTAACCA	AGAAGCTACT	5220
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CTTCGTCTCC	AAGGTGAGTC	AGACAGTGGC	CGATCTGTTG	GGGATTGATT	GGAAATTACA	5340
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GACTTTAAC	AAATTAAACGC	TTGCAACTGG	CTCTAGAGAC	TGGGTGCTCC	TACTCCCCCTT	5460
AGCCCTGTAC	CGAGCCCGCA	ACACGCCGGG	CCCCCATGGC	CTCACCCCAT	ATGAGATCTT	5520
ATATGGGGCA	CCCCCGCCCC	TTGTAAACCT	CCCTGACCCCT	GACATGACAA	GAGTTACTAA	5580
CAGCCCCCT	CTCCAAGCTC	ACTTACAGGC	TCTCTACTTA	GTCCAGCACG	AAGTCTGGAG	5640
ACCTCTGGCG	GCAGCCTACC	AAGAACAACT	GGACCGACCG	GTGGTACCTC	ACCCCTTACCG	5700
AGTCGGCAGC	ACAGTGTGGG	TCCGCCGACA	CCAGACTAAG	AACCTAGAAC	CTCGCTGGAA	5760
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GCGGCCAGC	CGGCCACCAT	GAAAACATT	AAACATTCTC	AAACAAGATCT	AGAATTAGTA	6060
GAAGTAGCGA	CAGAGAAGAT	TACAATGCTT	TATGAGGATA	ATAAACATCA	TGTGGGAGCG	6120
GCAATTGCGA	CGAAAACAGG	AGAAATCATT	TCGGCAGTAC	ATATTGAAGC	GTATATAGGA	6180
CGAGTAAC	TTTGTGCGA	AGCCATTGCG	ATTGGTAGTG	CAGTTTCGAA	TGGACAAAAG	6240
GATTTTGACA	CGATTGTAGC	TGTTAGACAC	CCTTATTCTG	ACGAAGTAGA	TAGAAGTATT	6300
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TTTGTGTTAA	TAGAAATGAA	TGGCAAGTTA	GTCAAAACTA	CGATTGAAGA	ACTCATTC	6420
CTCAAAATA	CCCGAAATT	AAAGTTTAC	CACCAAGCTT	ATCGATTAGT	CCAATTGTT	6480
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GGAATGAAAG	ACCCCCACCTG	TAGGTTTGGC	AAGCTAGCTT	AAGTAACGCC	ATTTTGCAAG	6660
GCATGGAAAA	ATACATAACT	GAGAATAGAG	AAGTTTCAAG	CAAGGTCAGG	AACAGATGGA	6720
ACAGTCGAGA	ACTTGTATT	TGCACTTAT	AATGGTTACA	AATAAACGCAA	TAGCATCACA	6780
AATTCACAA	ATAAACGATT	TTTTTCACTG	CATTCTAGTT	GTGGTTTGTCA	CAAACCTCATC	6840
AATGTATCTT	ATCATGTCTG	GATCCCCAGG	AAGCTCCCTC	GTGTCCTCAT	AAACCCCTAAC	6900
CTCCCTCACT	TGAGAGGACA	TTCCAATCAT	AGGCTGCCA	TCCACCCCTCT	GTGTCCCTC	6960
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AAACCCCTGC	TCATCAAGAA	GCACTGTGGT	TGCTGTGTTA	GTAATGTGCA	AAACAGGAGG	7200
CACATTTC	CCACCTGTGT	AGGTTCCAAA	ATATCTAGTG	TTTTCATT	TACTTGGATC	7260
AGGAACCCAG	CACTCCACTG	GATAAGCATT	ATCCTTATCC	AAAACAGCCT	TGTGGTCAGT	7320
GTTCATCTGC	TGACTGTCAA	CTGTAGCATT	TTTGGGGTT	ACAGTTTGAG	CAGGATATT	7380
GGTCCCTGTAG	TTTGCTAAC	CACCCCTGCG	CTCCAAAGGT	TCCCCACCAA	CAGCAAAAAAA	7440
ATGAAAATT	GACCCCTGAA	TGGGTTTCC	AGCACCATTT	TCATGAGTT	TTTGTGTC	7500
TGAATGCAAG	TTAACATAG	CAGTTACCC	AATAACCTCA	GTTTTAACAG	TAACACCTTC	7560
CCACATCAAA	ATATTCCAC	AGGTTAAC	CTCATTAAA	TTAGGCAAAG	GAATTC	7616

Figure 7. hCMV+intron Sequence

AGATCTCCCG	ATCCCCTATG	GTCGACTCTC	AGTACAATCT	GCTCTGATGC	CGCATAGTTA	60
AGCCAGTATC	TGCTCCCTGC	TTGTGTGTTG	GAGGTCGCTG	AGTAGTGCAC	GAGCAAAATT	120
TAAGCTACAA	CAAGGCAAGG	CTTGACCGAC	AATTGCATGA	AGAATCTGCT	TAGGGTTAGG	180
CGTTTGCGC	TGCTTCGCGA	TGTACGGGCC	AGATATAACGC	GTTGACATTG	ATTATTGACT	240
AGTTATTAAAT	AGTAAATCAAT	TACGGGGTCA	TTAGTTCATG	GCCCCATATAT	GGAGTTCCGC	300
GTTACATAAC	TTACCGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CCGCCCATTG	360
ACGTCAATAA	TGACGTATGT	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	420
TGGGTGGACT	ATTTACGGTA	AACTGCCAC	TTGGCAGTAC	ATCAAGTGT	TCATATGCCA	480
AGTACGCC	CTATTGACGT	CAATGACGGT	AAATGGGCCG	CCTGGCATTA	TGCCCAGTAC	540
ATGACCTTAT	GGGACTTTCC	TAAGTGCAG	TACATCTACG	TATTAGTCAT	CGCTATTAC	600
ATGGTGTGTC	GGTTTGGCA	GTACATCAAT	GGGCGTGGAT	AGCGGTTTGA	CTCACGGGGA	660
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GACTTTCCAA	AATGTCGTA	CAACTCCGCC	CCATTGACGC	AAATGGGCCG	TAGGCGTGT	780
CGGTGGGAGG	TCTATATAAG	CAGAGCTCTC	TGGCTAACTA	GAGAACCCAC	TGCTTAAC	840
GCTTATCGAA	ATGTCGACTG	AGAACTTCAG	GGTGAGTTG	GGGACCCCTG	ATTGTTCTT	900
CTTTTCGCT	ATTGAAAAT	TCATGTTATA	TGGAGGGGGC	AAAGTTTCA	GGGTGTTGTT	960
TAGAATGGGA	AGATGTCCT	TGTATCACCA	TGGACCCCTCA	TGATAATT	TTTCTTCA	1020
CTTTCTACTC	TGTTGACAAAC	CATTGTCCTC	TCTTATTTC	TTTCACTTT	CTGTAAC	1080
TTCGTTAAAC	TTTAGCTTGC	ATTGTAACG	AATTTTAAA	TTCACTTTG	TTTATTTGTC	1140
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TACTTCAGCA	CAGTTTTAGA	GAACAATTGT	TATAATTAAA	TGATAAGGT	GAATATTCT	1260
GCATATAAAAT	TCTGGCTGGC	GTGAAATAT	TCTTATTGGT	AGAAACAACT	ACATCCTG	1320
CATCATCCTG	CCTTCTCTT	TATGGTTACA	ATGATATACA	CTGTTGAGA	TGAGGATAAA	1380
ATACTCTGAG	TCCAAACCGG	GCCCCCTGTC	TAACCATGTT	CATGCCTCT	TCTTTTCT	1440
ACAGCTCCTG	GGCAACGTGC	TGGTTGTTGT	GCTGTCTCAT	CATTTGGCA	AGAATTGGCC	1500
GCAAGCTTCT	GCAGCATCGT	TCTGTGTTGT	CTCTGTCTGA	CTGTGTTCT	GTATTTGTC	1560
GAGAATATGG	GCCAGACTGT	TACCACTCCC	TTAAGTTG	CCTTAAAGTCA	CTGGAAAGAT	1620
GTCGAGCGGA	TCGCTCACAA	CCAGTCGGT	GATGTCAGA	AGAGACGTTG	GGTTACCTTC	1680
TGCTCTGCG	AATGCCAAC	CTTAAACGTC	GGATGGCCG	GAGACGGCAC	CTTTAACCGA	1740
GACCTCATCA	CCCAGGTTAA	GATCAAGGT	TTTCACCTG	GCCCCATGG	ACACCCAGAC	1800
CAGGTCCCC	ACATCGTAC	CTGGGAAGCC	TTGGCTTTG	ACCCCCCTCC	TCTGGTCAAG	1860
CCCTTGTAC	ACCCCTAACGCC	TCCGCCTCCT	CTTCCTCCAT	CGGCCCCGTC	TCTCCCCCTT	1920
GAACCTCCTC	GTTCGACCCC	GCCTCGATCC	TCCCTTATC	CAGCCCTCAC	TCCTTCTCTA	1980
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GGTGGAGAAG	CGACCCCTGC	GGGAGAGGCA	CGGGACCCCT	CCCCAATGGC	ATCTCGCTA	2160
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GCAGGAGGAA	ACGGACAGCT	TCAAACTACG	CCGTTCTCCT	CTTCTGACCT	TTACAAC	2280
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GTCTCATCA	CCCCTCAGCC	CACCTGGAC	GACTGTACG	AGCTGTTGG	GAATCTGCTG	2400
ACCGGAGAAAG	AAAAACAAACG	GGTGTCTTA	GAGGCTAGAA	AGGCGGTGCG	GGCGATGAT	2460
GGGCCCCCA	CTCAACTGCC	CAATGAAGTC	GATGCCGCTT	TTCCCTCTGA	GGCCCCAGAC	2520
TGGGATTACA	CCACCCAGGC	AGGTAGGAAC	CACCTAGTCC	ACTATGCCA	GTTGCTCTTA	2580
GCGGGTCTCC	AAAACGCGGG	CAGAAGCCCC	ACCAATTG	CCAAGTAA	AGGAATAACA	2640
CAAGGGCCCA	ATGAGTCTCC	CTCGGCCTC	CTAGAGAGAC	TTAAGGAAGC	CTATCGCAGG	2700
TACACTCCTT	ATGACCCCTGA	GGACCCAGGG	CAAGAAACTA	ATGTGTCTAT	GTCTTTCATT	2760
TGGCAGTCTG	CCCCAGACAT	TGGGAGAAAG	TTAGAGAGGT	TAGAAGATT	AAAAAACAAAG	2820
ACGCTTGGAG	ATTGGTTAG	AGAGGAGAA	AAGATCTTTA	ATAAACGAGA	AACCCCGGAA	2880
GAAAGAGAGG	AACGTATCAG	GAGGAGAAC	GAGGAAAAAG	AAGAACGCCG	TAGGACAGAG	2940
GATGAGCAGA	AAGAGAAAGA	AAGAGATCGT	AGGAGACATA	GAGAGATGAG	CAAGCTATTG	3000
GCCACTGTG	TTAGTGGACA	GGAAACAGGAT	AGACAGGGAG	GAGAACGAAG	GAGGTCCCAA	3060
CTCGATCGCG	ACCAGTGTGC	CTACTGCAA	AAAAGGGGC	ACTGGCTAA	AGATTGTCCC	3120
AAGAAAACCAC	GAGGACCTCG	GGGACCAAGA	CCCCAGACCT	CCCTCCTGAC	CCTAGATGAC	3180
TAGGGAGGTC	AGGGTCAGGA	GCCCCCCCCT	GAACCCAGGA	TAACCTCAA	AGTCGGGGGG	3240
CAACCCGTCA	CCTTCTCTGGT	AGATACTGGG	GCCCCAACACT	CCGTGCTGAC	CCAAAATCCT	3300
GGACCCCTAA	GTGATAAGTC	TGCCTGGTC	CAAGGGGCTA	CTGGAGGAAA	GGCGTATCGC	3360
TGGACCCACGG	ATCGCAAAGT	ACATCTAGCT	ACCGGTAAGG	TCACCCACTC	TTTCCTCCAT	3420
GTACCCAGACT	GTCCCTATCC	TCTGTTAGGA	AGAGATTG	TGACTAAACT	AAAAGCCCAA	3480
ATCCACTTTG	AGGGATCAGG	AGCTCAGGTT	ATGGGACCAA	TGGGGCAGCC	CCTGCAAGTG	3540
TTGACCCCTAA	ATATAGAAGA	TGAGCATCGG	CTACATGAGA	CCTCAAAAGA	GCCAGATGTT	3600
TCTCTAGGGT	CCACATGGCT	GTCTGATT	CCTCAGGCT	GGGCGGAAAC	GGGGGGCATG	3660
GGACTGGCAG	TTCGCCAACG	TCCTCTGATC	ATACCTCTGA	AAGCAACCTC	TACCCCCGTG	3720
TCCATAAAAC	AATACCCCAT	GTCACAAGAA	GCCAGACTGG	GGATCAAGCC	CCACATACAG	3780
AGACTGTTGG	ACCAGGGAAAT	ACTGGTACCC	TGCCAGTCCC	CCTGGAACAC	CCCCCTGCTA	3840
CCCGTTAAGA	AACCAGGGAC	TAATGATTAT	AGGCTGTCC	AGGATCTGAG	AGAAGTCAAC	3900
AAGCGGGTGG	AAGACATCCA	CCCCACCGTG	CCCAACCCCTT	ACAACCTCTT	GAGCGGGCTC	3960
CCACCGTCCC	ACCAGTGGTA	CACTGTGCTT	GATTAAAGG	ATGCCTTTTT	CTGCTGAGA	4020
CTCCACCCCA	CCAGTCAGCC	TCTCTCGCC	TTTGAGTGG	GAGATCCAGA	GATGGGAATC	4080

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Figure 7. hCMV+intron Sequence

TCAGGACAAT	TGACCTGGAC	CAGACTCCCA	CAGGGTTTCA	AAAACAGTCC	CACCCCTGTTT	4140
GATGAGGCAC	TGCACAGAGA	CCTAGCAGAC	TTCCGGATCC	AGCACCCAGA	CTTGATCCTG	4200
CTACAGTACG	TGGATGACTT	ACTGCTGGCC	GCCACTTCTG	AGCTAGACTG	CCAACAAGGT	4260
ACTCGGGCCC	TGTTACAAAC	CCTAGGGAAAC	CTCGGGTATC	GGGCCTCGGC	CAAGAAAGCC	4320
CAAATTGCC	AGAAACAGGT	CAAGTATCTG	GGGTATCTTC	TAAAAGAGGG	TCAGAGATGG	4380
CTGACTGAGG	CCAGAAAAGA	GACTGTGATG	GGGCAGCCTA	CTCCGAAGAC	CCCTCGACAA	4440
CTAAGGGAGT	TCCTAGGGAC	GGCAGGCTTC	TGTCGCCTCT	GGATCCCTGG	TTTGCAGAA	4500
ATGGCAGCCC	CCTTGTACCC	TCTCACCAAA	ACGGGGACTC	TGTTTAATTG	GGGCCAGAC	4560
CAAAAAAAGG	CCTATCAAGA	AATCAAGCAA	GCTCTCTAA	CTGCCCCAGC	CCTGGGGTTG	4620
CCAGATTGTA	CTAACGCCCC	TGAACCTTT	GTGACGAGA	AGCAGGGCTA	CGCCAAAGGT	4680
GTCCTAACGC	AAAAAACTGGG	ACCTTGGCGT	CGGGCGGTGG	CCTACCTGTC	AAAAAAAGCTA	4740
GACCCAGTAG	CAGCTGGGTG	GCCCCCTTGC	CTACGGATGG	TAGCAGGCAT	TGCCGTACTG	4800
ACAAAGGATG	CAGGCAAGCT	AACCATGGG	CAGCCACTAG	TCATTCTGGC	CCCCCATGCA	4860
GTAGAGGCAC	TAGTCAAACA	ACCCCCCGAC	CGCTGGCTT	CCAACGCCG	GATGACTCAC	4920
TATCAGGCCT	TGCTTTGGA	CACGGACGG	GTCCAGTTCG	GACCGGTGGT	AGCCCTGAAC	4980
CCGGCTACGC	TGCTCCCACT	GCCTGAGGAA	GGGCTGCAAC	ACAAC TGCT	TGATATCCTG	5040
GCCGAAGCCC	ACGGAACCCG	ACCCGACCTA	ACGGACCCAGC	CGCTCCCAGA	CGCCGACCAC	5100
ACCTGGTACA	CGGATGGAAG	CAGTCTCTTA	CAAGAGGGAC	AGCGTAAGGC	GGGAGCTGGG	5160
GTGACCACCG	AGACCGAGGT	AATCTGGCT	AAAGCCCTGC	CAGCCGGAC	ATCCGCTCAG	5220
CGGGCTGAAC	TGATAGCACT	CACCCAGGCC	CTAAAGATGG	CAGAAGGTAA	GAAGCTAAAT	5280
GTTTATACTG	ATAGCCGTTA	TGCTTTGCT	ACTGCCATA	TCCATGGAGA	ATATACAGA	5340
AGGCCTGGGT	TGCTCACATC	AGAAGGCAA	GAGATCAAAA	ATAAAGACGA	GATCTGGCC	5400
CTACTAAAAG	CCCTCTTTCT	GCCCCAAAGA	CTTAGCATAA	TCCATTGTCC	AGGACATCAA	5460
AAGGGACACA	GCGCCGAGGC	TAGAGGCAAC	CGGATGGCTG	ACCAAGCGGC	CGCAAAGGCA	5520
GCCATCACAG	AGACTCCAGA	CACCTCTACC	CTCCTCATAG	AAAATTCA	ACCTACACC	5580
TCAGAACATT	TTCATTACAC	AGTGA	TGAT	ATAAAGGACC	TAACCAAGTT	5640
TATGATAAAA	CAAAGAAGTA	TTGGGTCTAC	CAAGGAAAAC	CTGTGATGCC	TGACCAGTTT	5700
ACTTTTGAAT	TATTAGACTT	TCTTCATCAG	CTGACTCACC	TCAGCTTCTC	AAAAATGAAG	5760
GCTCTCCTAG	AGAGAACCCA	CAGTCCCTAC	TACATGCTGA	ACCGGGATCG	AACACTCAA	5820
AATATCACTG	AGACCTGCAA	AGCTTGTGCA	CAAGTCAACG	CCAGCAAGTC	TGCCGTTAAA	5880
CAGGGAACTA	GGGTCGGCGG	GCATCGGGCC	GGCACTCATT	GGGAGATCGA	TTTCACCGAG	5940
ATAAAGCCCG	GATTGTATGG	CTATAAATAT	CTTCTAGTTT	TTATAGATAC	CTTTCTGGC	6000
TGGATAGAAG	CCTTCCCAAC	CAAGAAAGAA	ACGCCAAGG	TCGTAACCAA	GAAGCTACTA	6060
GAGGAGATCT	TCCCCAGGTT	CGGCATGCC	CAGGTATTGG	GAACTGACAA	TGGGCCCTGCC	6120
TTCGTCTCCA	AGGTGAGTCA	GACAGTGGCC	GATCTGTTGG	GGATTGATTG	GAATTACAT	6180
TGTGCATACA	GACCCCAAAG	CTCAGGCCAG	GTAGAAAGAA	TGAATAGAAC	CATCAAGGAG	6240
ACTTTAACTA	AATTAAACGCT	TGCAACTGGC	TCTAGAGACT	GGGTGCTCCT	ACTCCCCTTA	6300
GCCCTGTACC	GAGCCCGCAA	CACGCCGGGC	CCCCATGGCC	TCACCCCTATA	TGAGATCTTA	6360
TATGGGGCAC	CCCCCCCCCT	TGTAAACCTTC	CCTGACCCTG	ACATGACAAG	AGTTACTAAC	6420
AGCCCCCTCTC	TCCAAGCTCA	CTTACAGGCT	CTCTACTTTAG	TCCAGCACGA	AGTCTGGAGA	6480
CCTCTGGCGG	CAGCCTACCA	AGAACAACTG	GACCGACCGG	TGGTACCTCA	CCCTTACCGA	6540
GTCGGCGACA	CAGTGTGGGT	CCGCCGACAC	CAGACTAAGA	ACCTAGAAC	TGCTGGAAA	6600
GGACCTTACA	CAGTCTGCT	GACCACCCCC	ACGCCCTCA	AAGTAGACGG	CATCGCAGCT	6660
TGGATACACG	CGGCCACACGT	GAAGGCTGCC	GACCCCGGGG	GTGGACCATC	CTCTAGACTG	6720
ACATGGCGCG	TTCAACGCTC	TCAAAACCCC	TTAAAAATAA	GGTTAACCCG	CGAGGCCCCC	6780
TAATCCCCCTT	AATTCTTCTG	ATGCTCAGAG	GGGTCA	TGCTTCCGCCC	GGCTCCAGTG	6840
CGGCCACAGCC	GGCCACCATG	AAAACATT	ACATTCTCA	ACAAGATCTA	GAATTAGTAG	6900
AACTAGCGAC	AGAGAAGATT	ACAATGCTT	ATGAGGATAA	AAACATCAT	GTGGGAGCGG	6960
CAATTCTGAC	AAAAACAGGA	GAAATCATT	CGGCAGTACA	TATTGAAGCG	TATATAGGAC	7020
GAGTAACCTG	TTGTGAGA	GCCATTGCGA	TTGGTAGTGC	AGTTTCGAAT	GGACAAAAGG	7080
ATTGGACAC	GATTGTAGCT	GTTAGACACC	CTTATTCTGA	CGAAGTAGAT	AGAAGTATTTC	7140
GAGTGGTAAG	TCCTTGTTGGT	ATGTGTTAGGG	AGTTGATTTC	AGACTATGCA	CCAGATTGTT	7200
TTGTGTTAAT	AGAAATGAAT	GGCAAGTTAG	TCAAAACTAC	GATTGAAGAA	CTCATTCCAC	7260
TCAAATATAC	CCGAAATTAA	AAGTTTACC	ACCAAGCTTA	TCGAATT		7308

Figure 8. hCMV+intronkaSD Sequence

AGATCTCCCG	ATCCCCTATG	GTCGACTCTC	AGTACAATCT	GCTCTGATGC	CGCATAGTTA	60
AGCCAGTATC	TGCTCCCTGC	TTGTGTGTTG	GAGGTCGCTG	AGTAGTCGCG	GAGCAAAATT	120
TAAGCTACAA	CAAGGCAAGG	CTTGACCGAC	AATTGCATGA	AGAATCTGCT	TAGGGTTAGG	180
CGTTTGCGC	TGCTCGCGA	TGTACGGGC	AGATATACGC	GTTGACATTG	ATTATTGACT	240
AGTTATTAAAT	AGTATCAAT	TACGGGTC	TTAGTTCAT	GCCCATAAT	GGAGTTCCGC	300
GTTACATAAC	TTACCGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CCGCCCATTG	360
ACGTCAATAA	TGACGTATGT	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	420
TGGGTGGACT	ATTTACGGTA	AACTGCCAC	TTGGCAGTAC	ATCAAGTGT	TCATATGCCA	480
AGTACGCC	CTATTGACGT	CAATGACGGT	AAATGGCCCG	CCTGGCATT	TGCCCAGTAC	540
ATGACCTTAT	GGGACTTTCC	TACTTGGCAG	TACATCTACG	TATTAGTCAT	CGCTATTACC	600
ATGGTGTATGC	GGTTTTGGCA	GTACATCAAT	GGCGTGGAT	AGCGGTTGA	CTCACGGGGA	660
TTTCCAAGTC	TCCACCCCCAT	TGACGTCAT	GGGAGTTTG	TTTGGCACCA	AAATCAACGG	720
GACTTTCCAA	AATTCGCTAA	CAACTCCGCC	CCATTGACGC	AAATGGCGG	TAGGCGTGT	780
CGGTGGGGAGG	TCTATATAAG	CAGAGCTCTC	TGCTTAACTA	GAGAACCCAC	TGCTTAACTG	840
GCTTATCGAA	ATGTCGACTG	AGAACCTTCAG	GGTGAGTTG	GGGACCCCTG	ATTGTTCTTT	900
CTTTTTCGCT	ATTGTAAAAT	TCATGTTATA	TGGAGGGGGC	AAAGTTTCA	GGGTGTTGTT	960
TAGAATGGGA	AGATGTCCTC	TGTATCACCA	TGACCCCTCA	TGATAATT	TTTCTTTCA	1020
CTTTCTACTC	TGTTGACAAAC	CATTGCTCTC	TCTTATTTTC	TTTCATTTT	CTGTAACATT	1080
TTCGTTAAAC	TTTAGCTTGC	ATTGTAAACG	AATTTTAAA	TTCACTTTG	TTTATTTGTC	1140
AGATTGTAAG	TACTTTCTCT	AATCACTTTT	TTTCAGGGC	AATCAGGGTA	TATTATATTG	1200
TACTTCAGCA	CAGTTTTAGA	GAACAATTGT	TATAATTAAA	TGATAAGGTA	GAATATTCT	1260
GCATATAAAAT	TCTGGCTGGC	GTGAAATAT	TCTTATTGGT	AGAAACAACT	ACATCCTGGT	1320
CATCATCTG	CCTTCTCTT	TATGGTACA	ATGATATACA	CTGTTGAGA	TGAGGATAAA	1380
ATACTCTGAG	TCCAAACCGG	GCCCTCTGC	TAACCATGTT	CATGCTTCT	TCTTTTTCT	1440
ACAGCTCTG	GGCAACGTGC	TGGTGTGTT	GCTGTCAT	CATTTGGCA	AGAATTGGCC	1500
GCAAGCTCT	GCAGCATCGT	TCTGTGTGTT	CTCTGTCAT	CTGTTGTTCT	GTATTGTC	1560
GAGAATATGG	GCCAGACTGT	TACCACTCCC	TTAAGTTGA	CCTTAGGTCA	TGCGAAAGAT	1620
GTCGAGCGGA	TCGCTCACAA	CCAGTCGGTA	GATGTCAAGA	AGAGACGTTG	GGTACCTTC	1680
TGCTCTGCAG	AATGCCAAC	CTTTAACGTC	GGATGGCCGC	GAGACGGCAC	CTTTAACCGA	1740
GACCTCATCA	CCCAGGTTAA	GATCAAGGTC	TTTCACCTG	GCCCCGATGG	ACACCCAGAC	1800
CAGGTCCCC	ACATCGTAC	CTGGGAAGCC	TTGGCTTTG	ACCCCCCTCC	CTGGGTCAAG	1860
CCCTTGTAC	ACCCTAAGCC	TCCGCCTCCT	CTTCCTCCAT	CCGCCCCGTC	TCTCCCCCTT	1920
GAACCTCC	GTTCGACCCC	GCCTCGATCC	TCCCTTTATC	CAGCCCTCAC	TCCTTCTCTA	1980
GGCGCCAAAC	CTAAACCTCA	AGTTCTTCT	GACAGTGGGG	GGCCGCTCAT	CGACCTACTT	2040
ACAGAAGAAC	CCCCGCCTTA	TAGGGACCCA	AGACCACCCC	CTTCCGACAG	GGACGGAAT	2100
GGTGGAGAGAAG	CGACCCCTGC	GGGAGAGGCA	CGGGACCCCT	CCCCATGGC	ATCTCGCTA	2160
CGTGGGAGAG	GGGAGCCCCC	TGTGGCCGAC	TCCACTACCT	CGCAGGCATT	CCCCCTCCGC	2220
GCAGGAGGAA	ACGGACAGCT	TCAATACTGG	CCGCTCTCC	CTTCTGACCT	TTACAACCTGG	2280
AAAAATAATA	ACCCTTCTTT	TTCTGAAGAT	CCAGGTAAAC	TGACAGCTCT	GATCGAGTCT	2340
GTTCTCATCA	CCCATCAGCC	CACCTGGGAC	GACTGTCAGC	AGCTGTTGGG	GACTCTGCTG	2400
ACCGGAGAAG	AAAAACAAAG	GGTGCTCTTA	GAGGCTAGAA	AGGCGGTGC	GGGCGATGAT	2460
GGGCGCCCCA	CTCAACTGCC	CAATGAAGTC	GATGCCGTT	TTCCCCCTCGA	GGGCCAGAC	2520
TGGGATTACA	CCACCCAGGC	AGGACGCAAC	CACCTAGTCC	ACTATCGCCA	TTGCTCCTA	2580
GCGGGTCTCC	AAAACGCGGG	CAGAAGCCCC	ACCAATTGG	CCAAGTAAA	AGGAATAACA	2640
CAAGGGCCA	ATGAGCTCC	CTCGGCCCTTC	CTAGAGAGAC	TTAAGGAAGC	CTATCGCAGG	2700
TACACTCCTT	ATGACCCCTGA	GGACCCAGGG	CAAGAAACTA	ATGTGCTAT	GTCTTTCTATT	2760
TGGCAGTCTG	CCCCAGACAT	TGGGAGAGAAG	TTAGAGAGGT	TAGAAGATT	AAAAACAAAG	2820
ACGCTTGGAG	ATTGGTTAG	AGAGGGCAGAA	AAGATCTTA	ATAAACGAGA	AACCCCGGAA	2880
GAAAGAGAGG	AACGTATCAG	GAGAGAAACA	GAGGAAAAG	AAGAACGCCG	TAGGACAGAG	2940
GATGAGCAGA	AAGAGAAAGA	AAGAGATCGT	AGGAGACATA	GAGAGATGAG	CAAGCTATTG	3000
GCCACTGTCG	TTAGTGGACA	GAAACAGGAT	AGACAGGGAG	GAGAACGAAG	GAGGTCCCCAA	3060
CTCGATCGCG	ACCAGTGTGC	CTACTGCAA	GAAAAGGGGC	ACTGGCTAA	AGATTGTC	3120
AAGAAACAC	GAGGACCTCG	GGGACCAAGA	CCCCAGACCT	CCCTCCTGAC	CCTAGATGAC	3180
TAGGGAGGTC	AGGGTCAGGA	GCCCCCCCC	GAACCCAGGA	TAACCCCTAA	AGTCGGGGGG	3240
CAACCCGTCA	CCTTCTCTGGT	AGATACTGGG	GCCCAACACT	CCGTGCTGAC	CCAAAATCT	3300
GGACCCCTAA	GTGATAAGTC	TGCCCTGGTC	CAAGGGCTA	CTGGAGGAAA	GGGGTATCGC	3360
TGGACCACGG	ATCGCAAAGT	ACATCTAGCT	ACCGGTAAAG	TCCACCACTC	TTTCTCCAT	3420
GTACCAGACT	GTCCCCATTC	TCTGTTAGGA	AGAGATTG	TGACTAAACT	AAAAGCCAA	3480
ATCCACTTTG	AGGGATCAGG	AGCTCAGGTT	ATGGGACCAA	TGGGGCAGCC	CCTGCAAGTG	3540
TTGACCCCTAA	ATATAGAAGA	TGAGCATCGG	CTACATGAGA	CCTCAAAAGA	GCCAGATGTT	3600
TCTCTAGGGT	CCACATGGCT	GTCTGATTTT	CCTCAGGCCT	GGCGGAAAC	CGGGGGCATG	3660
GGACTGGCAG	TTCGCCAAGC	TCCTCTGATC	ATACCTCTGA	AAGCAACCTC	TACCCCCGTG	3720
TCCATAAAAC	AATACCCCAT	GTCACAAGAA	GCCAGACTGG	GGATCAAGCC	CCACATACAG	3780
AGACTGTTGG	ACCAGGGAAT	ACTGGTACCC	TGCCAGTCCC	CCTGGAACAC	CCGCCCCTGCTA	3840
CCCGTTAAGA	AACCAGGGAC	TAATGATTAT	AGGCCTGTCC	AGGATCTGAG	AGAAGTC	3900
AAGCGGGTGG	AAGACATCCA	CCCCACCGTG	CCCAACCCCT	ACAACCTCTT	GAGCGGGCTC	3960
CCACCGTCCC	ACCAGTGGTA	CACTGTGCTT	GATTAAAGG	ATGCTTTTTT	CTGCTTGAGA	4020
CTCCACCCCA	CCAGTCAGCC	TCTCTTCGCG	TTTGAGTGG	GAGATCCAGA	GATGGGAATC	4080

Figure 8. hCMV+intronkaSD Sequence

TCAGGACAAT	TGACCTGGAC	CAGACTCCC	CAGGGTTCA	AAAACAGTCC	CACCCCTGTT	4140
GATGAGGCAC	TGCACAGAGA	CCTAGCAGAC	TTCCGGATCC	AGCACCCAGA	CTTGATCCTG	4200
CTACAGTACG	TGGATGACTT	ACTGCTGGCC	GCCACTTCTG	AGCTAGACTG	CCAACAAGGT	4260
ACTCGGGCCC	TGTTACAAAC	CCTAGGGAAC	CTCGGGTATC	GGGCCTCGGC	CAAGAAAGCC	4320
CAAATTGCGC	AGAAACAGGT	CAAGTATCTG	GGGTATCTTC	AAAAAGAGGG	TCAGAGATGG	4380
CTGACTGAGG	CCAGAAAAGA	GACTGTGATG	GGGCAGCTA	CTCCGAAGAC	CCCTCGACAA	4440
CTAAGGGAGT	TCCTAGGGAC	GGCAGGCTTC	TGTCGCCTCT	GGATCCCTGG	TTTTGCAGAA	4500
ATGGCAGCCC	CCTTGTACCC	TCTCACCAAA	ACGGGGACTC	TGTTTAATTG	GGGCCAGAC	4560
CAACAAAAGG	CCTATCAAGA	AATCAAGCAA	GCTCTTCTAA	CTGCCCCAGC	CCTGGGGTGTG	4620
CCAGATTGTA	CTAAGCCCTT	TGAACCTTT	GTCGACGAGA	AGCAGGGCTA	CGCCAAAGGT	4680
GTCCTAACGC	AAAAACTGGG	ACCTTGGCGT	CGGCCGGTGG	CCTACCTGTC	AAAAAAAGCTA	4740
GACCCAGTAG	CAGCTGGGTG	GCCCCCTTGC	CTACGGATGG	TAGCAGCCAT	TGCGGTACTG	4800
ACAAAGGATG	CAGGCAAGCT	AACCATGGGA	CAGCCACTAG	TCATTCTGGC	CCCCCATGCA	4860
GTAGAGGCAC	TAGTCAAACA	ACCCCCCGAC	CGCTGGCTTT	CCAACGCCG	GATGACTCAC	4920
TATCAGGCCT	TGCTTTGGA	CACGGACCGG	GTCAGCTTCG	GACCGGTGGT	AGCCCTGAAAC	4980
CCGGCTACGC	TGCTCCCCT	GCCTGAGGAA	GGGCTGCAAC	ACAACCTGCCT	TGATATCCCTG	5040
GCCGAAGCCC	ACGGAACCCG	ACCCGACCTA	ACGGACCAGC	CGCTCCAGA	CGCCGACCAC	5100
ACCTGGTACA	CGGATGGAAG	CAGTCTCTTA	CAAGAGGGAC	AGCGTAAGGC	GGGAGCTGCG	5160
GTGACCACCG	AGACCGAGGT	AATCTGGCT	AAAGCCCTGC	CAGCCGGAC	ATCCGCTCAG	5220
CGGGCTGAAC	TGATAGCACT	CACCCAGGCC	CTAAAGATGG	CAGAAGGTAA	GAAGCTAAAT	5280
GTTTATACTG	ATAGCCGTTA	TGCTTTGCT	ACTGCCATA	TCCATGGAGA	AATATACAGA	5340
AGGCCTGGGT	TGCTCACATC	AGAAGGCAA	GAGATCAAAA	ATAAAAGACGA	GATCTTGGCC	5400
CTACTAAAAG	CCCTCTTCT	GCCCCAAAGA	CTTAGCATAA	TCCATTGTCC	AGGACATCAA	5460
AAGGGACACA	GCGCCGAGGC	TAGAGGCAAC	CGGATGGCTG	ACCAAGCGGC	CGGAAAGGCA	5520
GCCATCACAG	AGACTCCAGA	CACCTCTACC	CTCTCTCATAG	AAAATTCACTC	ACCCCTACACC	5580
TCAGAACATT	TTCAATTACAC	AGTGAATGAT	ATAAAAGGCC	TAACCAAGTT	GGGGGCCATT	5640
TATGATAAAA	CAAAGAAGTA	TGGGGTCTAC	CAAGGAAAAC	CTGTGATGCC	TGACCAGTTT	5700
ACTTTTGAAAT	TATTAGACTT	TCTTCATCAG	CTGACTCACC	TCAGCTTCTC	AAAAATGAAG	5760
GCTCTCTAG	AGAGAAAGCA	CAGTCCCTAC	TACATGCTGA	ACCGGGATCG	AAACACTCAA	5820
AATATCACTG	AGACCTGCAA	AGCTTGTCGA	CAAGTCAACG	CCAGCAAGTC	TGCCGTTAAA	5880
CAGGGAACTA	GGGTCCGCGG	GCATCGGGCC	GGCACTCATT	GGGAGATCGA	TTTCACCGAG	5940
ATAAAGCCCG	GATTGTATGG	CTATAAATAT	CTTCTAGTTT	TTATAGATAC	CTTTCTGGC	6000
TGGATAGAAG	CCTTCCCAAC	CAAGAAAGAA	ACCGCCAAGG	TCGTAACCAA	GAAGCTACTA	6060
GAGGAGATCT	CCCCCAGGTT	CGGCATGGCT	CAGGTATTGG	GAACTGACAA	TGGGCCTGCC	6120
TTCGTCTCCA	AGGTGAGTC	GACAGTGGCC	GATCTGTGG	GGATTGATTG	GAAATTACAT	6180
TGTGCATACA	GACCCCAAAG	CTCAGGCCAG	GTAGAAAGAA	TGAATAGAAC	CATCAAGGAG	6240
ACTTTAACTA	AATTAACGCT	TGCAACTGGC	TCTAGAGACT	GGGTGTCCT	ACTCCCCCTTA	6300
GCCCTGTACC	GAGCCCGCAA	CACGCCGGC	CCCCATGGCC	TCACCCCTATA	TGAGATCTTA	6360
TATGGGGCAC	CCCCGCCCT	TGTAAACTC	CCTGACCCCTG	ACATGACAAG	AGTTACTAAC	6420
AGCCCTCTC	TCCAAGCTCA	CTTACAGGCT	CTCTACTTAG	TCCAGCACGA	AGTCTGGAGA	6480
CCTCTGGCGG	CAGCCTACCA	AGAACAACTG	GACCGACCGG	TGGTACCTCA	CCCTTACCGA	6540
GTCGGCGACA	CAGTGTGGGT	CCGCCGACAC	CAGACTAAGA	ACCTAGAAC	TCGCTGGAAA	6600
GGACCTTACA	CAGTCTCTGCT	GACCACCCCC	ACCGCCCTCA	AAGTAGACGG	CATCGCAGCT	6660
TGGATACACG	CCGCCACGT	GAAGGCTGCC	GACCCCGGGG	GTGGACCATC	CTCTAGACTG	6720
ACATGGCGGC	TTCAACGCTC	TCAAAACCCC	TTAAAAATAA	GGTTAACCG	CGAGGCCCCC	6780
TAATCCCCTT	AATTCTCTG	ATGCTCAGAG	GGGTCACTAC	TGCTTCGCC	GGCTCCAGTG	6840
CGGCCCAGCC	GGCCACCATG	AAAACATTAA	ACATTTCTCA	ACAAGATCTA	GAATTAGTAG	6900
AAGTAGCGAC	AGAGAAAGATT	ACAATGCTT	ATGAGGATAA	AAACATCAT	GTGGGAGCGG	6960
CAATTCTGAC	AAAACAGGA	GAAATCATTT	CGGCACTACA	TATTGAAGCG	TATATAGGAC	7020
GAGTAACGTG	TTGTGCAGAA	GCCATTGCGA	TTGGTAGTGC	AGTTTCGAAT	GGACAAAAGG	7080
ATTGGACAC	GATTGTAGCT	GTAGACACC	CTTATTCTGA	CGAAGTAGAT	AGAAGTATTC	7140
GAGTGGTAAG	TCCTTGTGGT	ATGTGTAGGG	AGTTGATTTC	AGACTATGCA	CCAGATTGTT	7200
TTGTGTTAAT	AGAAATGAAT	GGCAAGTAG	TCAAAACTAC	GATTGAAGAA	CTCATTCCAC	7260
TCAAATATAC	CCGAAATTAA	AAGTTTACCA	ACCAAGCTTA	TCGAATT		7308

Figure 9. FBdelPASAF Sequence

CATATGCGGT	GTGAAATACC	GCACAGATGC	GTAAGGAGAA	AATACCGCAT	CAGGCGCCAT	60
TGCCCATTC	GGCTGCGCAA	CTGTTGGAA	GGCGGATCGG	TGCGGGCCTC	TTCGCTATTA	120
CGCCAGCTGG	CGAAAGGGGG	ATGTGCTGCA	AGGCAGATTAA	GTTGGGTAAC	GCCAGGGTTT	180
TCCCAGTCAC	GACGGTGTAA	AACGACGGCC	AGTGAATTCC	GATTAGTTCA	ATTTGTTAAA	240
GACAGGATCT	CAGTAGTCCA	GGCTTGTAC	CTGACTCAAC	AATACCAACCA	GCTAAAACCA	300
CTAGAATACG	AGCCACAATA	AATAAAAGAT	TTTATTAGT	TTCCAGAAAA	AGGGGGGAAT	360
GAAAGACCCC	ACCAAATTGC	TTAGCCTGAT	AGCCGAGTA	ACGCCATTTC	GCAAGGCATG	420
GAAAATACC	AAACCAAGAA	TAGAGAAGTT	CAGATCAAGG	GCGGGTACAC	GAAAACAGCT	480
AACGTTGGC	CAAACAGGAT	ATCTGCGGTG	ACGAGTTTCG	GCCCCGGCCC	GGGGCCAAGA	540
ACAGATGGC	ACCGCGGTT	GGCCCCGGCC	CGGGGCCAAG	AACAGATGGT	CCCCAGATAT	600
GGCCCAACCC	TCAGCAGTT	CTTAAGACCC	ATCAGATGTT	TCCAGGCTCC	CCCAAGGACC	660
TGAAATGACC	CTGTGCCTTA	TTTGAATTAA	CCAATCAGCC	TGCTTCTCGC	TTCTGTTTCG	720
GGCGCTCTGC	TTCCCGAGCT	CTATAAAAAGA	GCTCACAACC	CCTCACTCGG	CGCGCCAGTC	780
CTCCGATAGA	CTGAGTCGCC	CGGGTACCCG	TGTATCCAAT	AAATCCTCTT	GCTGTTGCAT	840
CCGACTCGT	GTCTCGTGT	TCTTGGGAG	GCTCTCCTCA	GAGTGAATG	CTACCCGCT	900
CGGGGGTCTT	TCATTGGGG	GCTCGTCCGG	GATCTGGAGA	CCCCTGCCA	GGGACCACCG	960
ACCCACCACC	GGGAGGTAAG	CTGGCCAAGA	TCTTATATGG	GGCACCCCCG	CCCCTTGTAA	1020
ACTTCCCTGA	CCCTGACATG	ACCAGAGTTA	CTAACAGCCC	CTCTCTCAA	GCTCACTTAC	1080
AGGCTCTCTA	CTTAGTCCAG	CACGAAGTTT	GGAGACCACT	GGCGGAGCT	TACCAAGAAC	1140
AACTGGACCG	GCCGGTGGTG	CCTCACCCCT	ACCGGGTCGG	CGACACAGTG	TGGGTCCGCC	1200
GACATCAAAC	CAAGAACCTA	GAACCTCGCT	GGAAAGGACC	TTACACAGTC	CTGCTGACCA	1260
CCCCCACCGC	CCTCAAAGTA	GACGGTATCG	CAGCTTGGAT	ACACGAGCC	CACGTAAGG	1320
CGGCCGACAC	CGAGAGTGGA	CCATCCTCTG	GACGGACATG	GCGCCTCAA	CGCTCTCAA	1380
ACCCCTCTAA	GATAAGATTA	ACCCGTGGAA	GCCCTTAATA	GTCATGGGAG	TCCTGTTAGG	1440
AGTAGGGATG	GCAGAGAGCC	CCCATCAGGT	CTTAAATGTA	ACCTGGAGAG	TCACCAACCT	1500
GATGACTGGG	CGTACCGCCA	ATGCCACCTC	CCTCCTGGGA	ACTGTACAAG	ATGCCCTTCC	1560
AAAATTATAT	TTTGATCTAT	GTGATCTGGT	CGGAGAGGAG	TGGGACCCCT	CAGACCAGGA	1620
ACCGTATGTC	GGGTATGGCT	GCAAGTACCC	CGCAGGGAGA	CAGCGGACCC	GGACTTTGA	1680
CTTTTACGTG	TGCCCTGGGC	ATACCGTAAA	GTCGGGGTGT	GGGGGACCAG	GAGAGGGCTA	1740
CTGTGGTAAA	TGGGGGTGTG	AAACCACCGG	ACAGGCTTAC	TGGAAGCCCA	CATCATCGT	1800
GGACCTAATC	TCCCTTAAGC	GCGGTAACAC	CCCCCTGGAC	ACGGGATGCT	CTAAAGTTGC	1860
CTGTGGCCCC	TGCTACGACC	TCTCCAAAGT	ATCCAATTCC	TTCCAAGGGG	CTACTCGAGG	1920
GGGCAGATGC	AACCCCTCTAG	TCCTAGAATT	CACTGATGCA	GGAAAAAAGG	CTAACTGGGA	1980
CGGGCCCAA	TCGTGGGGAC	TGAGACTGTA	CCGGACAGGA	ACAGATCCTA	TTACCATGTT	2040
CTCCCTGACC	CGGCAGGTCC	TTAATGTGGG	ACCCCGAGTC	CCCATAGGC	CCAACCCAGT	2100
ATTACCGAC	CAAAGACTCC	CTTCCCTAAC	AATAGAGATT	GTACCGGCTC	CACAGCCACC	2160
TAGCCCCCTC	AATACCAAGTT	ACCCCCCTTC	CACTACCACT	ACACCCCTCAA	CTCTCCCTAC	2220
AAGTCCAAGT	GTCCCACAGC	CACCCCCCAGG	AACTGGAGAT	AGACTACTAG	CTCTAGTCAA	2280
AGGACCTAT	CAGGCCTTA	ACCTCACCA	TCCCGACAAG	ACCCAAAGAT	GTTGGCTGTG	2340
CTTAGTGTGCG	GGACCTCCTT	ATTACGAAGG	AGTAGCGGT	GTGGGCACTT	ATACCAATCA	2400
TTCCACCGCT	CGGGCCAAC	GTACGGCCAC	TTCCCAACAT	AAGCTTACCC	TATCTGAAGT	2460
GACAGGACAG	GGCCTATGCA	TGGGGCAGT	ACCTAAAAC	CACCAGGCCT	TATGTAACAC	2520
CACCCAAAGC	GCGGCTCAG	GATCCTACTA	CCTTGCAGCA	CCCGCCGGAA	CAATGTGGGC	2580
TTGCAGCACT	GGATTGACTC	CCTGTTGTC	CACCAAGGTG	CTCAATCTAA	CCACAGATTA	2640
TTGTGATTAA	GTTGAACTCT	GGCCCAGAGT	AATTTACAC	TCCCCCGATT	ATATGTATGG	2700
TCAGCTTGA	CAGCGTACCA	AATATAAAAG	AGAGCAGTA	TCATTGACCC	TGGCCCTTCT	2760
ACTAGGAGGA	TTAACCATGG	GAGGGATTGC	AGCTGGAATA	GGGACGGGGA	CCACTGCTT	2820
AATTAAAACC	CAGCAGTTTG	AGCAGCTCA	TGCGCGTATC	CAGACAGACC	TCAACGAAGT	2880
CGAAAAGTC	ATTACCAACC	TAGAAAAGTC	ACTGACCTCG	TTGTCTGAAG	TAGTCCTACA	2940
GAACCGCAGA	GGCCTAGATT	TGCTATTCTC	AAAGGAGGG	GGTCTCTGCG	CAGCCCTAAA	3000
AGAAGAATGT	TGTTTTATG	CAGACCAAC	GGGGCTAGTG	AGAGACAGCA	TGGCAAATT	3060
AAGAGAAAGG	CTTAATCAGA	GACAAAAACT	ATTTGAGACA	GGCCAAGGAT	GGTCGAAGG	3120
GCTGTTTAAT	AGATCCCCCT	GGTTTACAC	CTTAATCTCC	ACCATCATGG	GACCTCTAAT	3180
AGTACTCTTA	CTGATCTTAC	TCTTGGACC	TTGCAATTCTC	AATCGATTAG	TTCAATTG	3240
TAAAGACAGG	ATCTCAGTAG	TCCAGCTTT	AGTCCTGACT	CAACAATACC	ACCAAGCTAAA	3300
GCTTATAGAG	TACGAGCCAT	AGGGCGCTA	GTGTTGACAA	TTAATCATCG	GCATAGTATA	3360
CGGCATAGTA	TAATACGACT	CACTATAGGA	GGGGCACCAT	GGCCAAGTTG	ACCAAGTCCG	3420
TTCCGGTGT	CACCGCGCGC	GACGTGCCG	GAGCGGTGCA	GTTCTGGACC	GACCGGCTCG	3480
GGTTCTCCCG	GGACTTCGTG	GAGGACGACT	TCGCGGGTGT	GGTCCGGGAC	GACGTGACCC	3540
TGTTCATCAG	CGCGGTCCAG	GACCAGGTG	TGCGGGACAA	CACCCCTGGCC	TGGGTGTGG	3600
TGCGCGGGCT	GGACGAGCTG	TACGCCAGT	GGTCGGAGGT	CGTGTCCACG	AACTTCCGGG	3660
ACGCCTCCGG	GCGGCCATG	ACCGAGATCG	GCGAGCAGCC	GTGGGGCGG	GAGTTCGCCC	3720
TGCGCGACCC	GGCGGGCAAC	TGCGTGCAC	TCGTTGCCGA	GGAGCAGGAC	TGANNNNCGG	3780
ACCGGTGAC	TTGTTAACTT	GTTTATTGCA	GCTTATAATG	GTTACAAATA	AAGCAATAGC	3840
ATCACAAATT	TCACAAATAA	AGCATTTC	TCACTGCTT	CTAGTTGTGG	TTTGTCCAAA	3900
CTCATCAATG	TATCTTATCA	TGTCTGGATC	CAGATCTGGG	CCCATGCGGC	CGCGGATCGA	3960
TNNNNACATG	TGAGCAAAAG	GCCAGAAAA	GGCCAGGAAC	CGTAAAAAGG	CCGCGTTGCT	4020
GGCGTTTTTC	CATAGGCTCC	GCCCCCTGA	CGAGCATTAC	AAAAATCGAC	GCTCAAGTCA	4080

Figure 9. FBdelPASA Sequence

GAGGTGGCGA	AACCCGACAG	GACTATAAAG	ATACCAGGGC	TTTCCCCCTG	GAAGCTCCCT	4140
CGTGCCTCT	CCTGTTCCGA	CCCTGCGCT	TACCGGATAC	CTGTCCGCCT	TTCTCCCTTC	4200
GGGAAGCGTG	GCGCTTTCTC	AATGCTCACG	CTGTAGGTTAT	CTCAGTTCGG	TGTAGGTCGT	4260
TCGCTCCAAG	CTGGGCTGTG	TGCACGAACC	CCCCGTTCAAG	CCCGACCGCT	GCGCCTTATC	4320
CGGTAACATAT	CGTCTTGAGT	CCAACCCGGT	AAGACACGAC	TTATGCCAC	TGGCAGCAGC	4380
CACTGGTAAC	AGGATTAGCA	GAGCGAGGTA	TGTAGGCGGT	GCTACAGAGT	TCTTGAAGTG	4440
GTGGCCTAAC	TACGGCTACA	CTAGAAGGAC	AGTATTGTTG	ATCTGCCTC	TGCTGAAGCC	4500
AGTTACCTTC	GGAAAAAAGAG	TTGGTAGCTC	TTGATCCGGC	AAACAAACCA	CCGCTGGTAG	4560
CGGTGGTTTT	TTTGTGTTGCA	AGCAGCAGAT	TACCGCGAGA	AAAAAAGGAT	CTCAAGAAGA	4620
TCCCTTGATC	TTTTCTACGG	GGTCTGACGC	TCAGTGGAAC	GAAAACTCAC	GTAAAGGGAT	4680
TTTGGTCATG	AGATTATCAA	AAAGGATCTT	CACCTAGATC	CTTTTAAATT	AAAAATGAAG	4740
TTTAAATCA	ATCTAAAGTA	TATATGAGTA	AACTTGGTCT	GACAGTACC	AATGCTTAAT	4800
CAGTGAGGCA	CCTATCTAG	CGATCTGCT	ATTTCGTTCA	TCCATAGTTG	CCTGACTCCC	4860
CGTCGTGTAG	ATAACTACGA	TACGGGAGGG	CTTACCATCT	GGCCCCAGTG	CTGCAATGAT	4920
ACCGCGAGAC	CCACGCTCAC	CGGCTCCAGA	TTTATCAGCA	ATAAAACAGC	CAGCCGGAAG	4980
GGCCGAGCGC	AGAAGTGGTC	CTGCAACTTT	ATCCGCCTCC	ATCCAGTCTA	TTAATTGTTG	5040
CCGGGAAGCT	AGAGTAAGTA	GTTCGCCAGT	TAATAGTTTG	CGCAACGTTG	TTGCCATTGC	5100
TACAGGCATC	GTGGTGTAC	GCTCGTCGT	TGGTATGGCT	TCATTAGCT	CCGGTTCCCA	5160
ACGATCAAGG	CGAGTTACAT	GATCCCCAT	TTTGTGAAA	AAAGCGGTTA	GCTCCTTCGG	5220
TCCCTCGATC	GTTGTCAAGAA	GTAAGTTGGC	CGCAGTGT	TCACTCATGG	TTATGGCAGC	5280
ACTGCATAAT	TCTCTTACTG	TCATGCCATC	CGTAAGATGC	TTTTCTGTA	CTGGTGTAGTA	5340
CTCAACCAAG	TCATTCTGAG	AATAGTGTAT	GGGGCAGCCG	AGTTGCTCTT	GCCCCGGCGTC	5400
AATAACGGGAT	AATACCGGC	CACATAGCAG	AACCTTTAAA	GTGCTCATCA	TTGGAAAACG	5460
TTCTTCGGGG	CGAAAACCTCT	CAAGGATCTT	ACCGCTGTTG	AGATCCAGTT	CGATGTAACC	5520
CACTCGTCA	CCCAACTGAT	CTTCAGCATC	TTTACTTTTC	ACCAGCGTTT	CTGGGTGAGC	5580
AAAAACAGGA	AGGAAAATG	CCGCAAAAAA	GGGAATAAGG	GCGACACGGA	AATGTTGAAT	5640
ACTCATAACTC	TTCCTTTTC	AATATTATTG	AAGCATTAT	CAGGGTTATT	GTCTCATGAG	5700
CGGATACATA	TTTGAATGTA	TTTAGAAAAA	TAACAAATA	GGGGTTCCGC	GCACATTTC	5760
CCGAAAAGTG	CCACCTGACG	TCTAAGAAC	CATTATTATC	ATGACATTAA	CCTATAAAA	5820
TAGGCGTATC	ACGAGGCCCT	TTCGTCTCGC	GGCTTTCGGT	GATGACGGTG	AAAACCTCTG	5880
ACACATGCAG	CTCCCCGAGA	CGGTACACAGC	TTGTCTGTAA	GGGGATGCCG	GGAGCAGACA	5940
AGCCCCGTCA	GGCGCGTCAG	CGGGTGTGTTG	CGGGTGTGCG	GGCTGGCTTA	ACTATGCGGC	6000
ATCAGAGCAG	ATTGTACTGA	GAGTGCAC				6028

Figure 10. FBdelPMOSAF Sequence

CATATGCGGT	GTGAAATACC	GCACAGATGC	GTAAGGAGAA	AATACCGCAT	CAGGCCCAT	60
TCGCCATTCA	GGCTGCGAA	CTGTTGGAA	GGGGCATCGG	TGCAGGCCTC	TTCGCTATT	120
CGCCAGCTGG	CGAAAGGGG	ATGTGCTGCA	AGGCGATTAA	GTTGGGTAAC	GCCAGGGTTT	180
TCCCAGTCAC	GACGTTGTAA	AACGACGGCC	AGTGAATTCC	GATTAGTTCA	ATTGTGTTAAA	240
GACAGGATCT	CAGTAGTCCA	GGCTTAGTC	CTGACTCAAC	AATACCACCA	GCTAAAACCA	300
CTAGAATACG	AGCCACAATA	AATAAAAGAT	TTTATTTAGT	TTCCAGAAAA	AGGGGGGAAT	360
GAAAGACCCC	ACCAAATTGC	TTAGCCTGAT	AGCCCGAGTA	ACGCCATT	GCAAGGCATG	420
GAAAATAC	AAACCAAGAA	TAGAGAAGTT	CAGATCAAGG	GCGGGTACAC	GAAAACAGCT	480
AACGTTGGGC	CAAACAGGAT	ATCTGCGGTG	AGCAGTTTCG	GCCCCGGCC	GGGGCCAAGA	540
ACAGATGGTC	ACCGCGGTT	GGCCCCGCC	CGGGGCAAG	AACAGATGGT	CCCCAGATAT	600
GGCCCAACCC	TCAGCAGTTT	CTTAAGACCC	ATCAGATGTT	TCCAGGCTCC	CCCAAGGACC	660
TGAAATGACC	CTGTGCTTA	TTTGAAATAA	CCAATCAGCC	TGCTTCGCG	TTCTGTTCGC	720
GGCCTTCTGC	TTCCCAGCT	CTATAAAAGA	GCTCACAAAC	CCTCACTCGG	CGCGCCAGTC	780
CTCCGATAGA	CTGAGTCGCC	CGGGTACCCG	TGTATCCAAT	AAATCCTCTT	GCTGTTGCAT	840
CCGACTCGTG	GTCTCGCTGT	TCCTGGGAG	GGTCTCCTCA	GAGTGAATTGA	CTACCCGCT	900
CGGGGGTCTT	TCATTGGGG	GCTCGTCCGG	GATCTGGAGA	CCCCTGCCA	GGGACCACCG	960
ACCCACCACC	GGGAGGTAAG	CTGGCCAAGA	TCTTATATGG	GGCACCCCCG	CCCCTGTAA	1020
ACTTCCCTGA	CCCTGACATG	ACAAGAGTTA	CTAACAGCCC	CTCTCTCAA	GCTCACTTAC	1080
AGGCTCTCTA	CTTAGTCCAG	CACGAAGTCT	GGAGACCTCT	GGCGCAGCC	TACCAAGAAC	1140
AACTGGACCG	ACCGGTGGTA	CCTCACCCCT	ACCGAGTCGG	CGACACAGTG	TGGGTCGCC	1200
GACACCAGAC	TAAGAACCTA	GAACCTCGCT	GGAAAGGACC	TTACACAGTC	CTGCTGACCA	1260
CCCCCACCAC	CCTCAAGTA	GACGGCATCG	CAGCTTGGAT	ACACGCC	CACGTGAAGG	1320
CTGCCGACCC	CGGGGGTGG	CCATCCTTA	GACTGACATG	GCGCGTC	CGCTCTCAA	1380
ACCCCTTAA	AATAAGGTTA	ACCCCGGAGG	CCCCCTAAATC	CCCTTAATT	TTCTGATGCT	1440
CAGAGGGGTC	AGTACTGCTT	CGCCCGGCTC	CAGTCCTCAT	CAAGTCTATA	ATATCACCTG	1500
GGAGGTAACC	AATGGAGATC	GGGAGACGGT	ATGGGCAACT	TCTGGCAACC	ACCCCTGTG	1560
GACCTGGTGG	CCTGACCTTA	CCCCAGATT	ATGTATGTTA	GCCCACCATG	GACCATCTTA	1620
TTGGGGGCTA	GAATATCAAT	CCCCTTTTC	TTCTCCCCCG	GGGCCCCCTT	GTTGCTCAGG	1680
GGGCAGCAGC	CCAGGCTGTT	CCAGAGACTG	CGAAGAACCT	TTAACCTCCC	TCACCCCTCG	1740
GTGCAACACT	GCCTGAAACA	GAECTCAAGCT	AGACCAGACA	ACTCATAAAT	CAAATGAGGG	1800
ATTTTATGTT	TGCCCCGGC	CCCACCGCC	CCGAGAATCC	AAGTCATGTG	GGGGTCCAGA	1860
CTCCTTCTAC	TGTGCTTATT	GGGGCTGTG	GACAACCGGT	AGAGCTTACT	GGAAGCCCTC	1920
CTCATCATGG	GATTCATCA	CAGTAAACAA	CAATCTACC	TCTGACAGG	CTGTCAGGT	1980
ATGCAAAGAT	AATAAGTGGT	GCAACCCCTT	AGTTATTGCG	TTTACAGACG	CGGGGAGACG	2040
GGTTACTTCC	TGGACACAG	GACATTACTG	GGGCTTACGT	TTGTATGTC	CCGGACAAGA	2100
TCCAGGGCTT	ACATTGGGA	TCCGACTCAG	ATACCAAAT	CTAGGACCCC	CGGTCCCCAT	2160
AGGGCCAAAC	CCCGTCTGG	CAGACCAACA	GCCACTCTCC	AAGCCAAAC	CTGTTAAGTC	2220
GCCTTCAGTC	ACCAAACAC	CCAGTGGGAC	TCCTCTCTCC	CCTACCCAAAC	TTCCACCGGC	2280
GGGAACGGAA	AATAGGCTGC	TAAACTTAGT	AGACGGAGCC	TACCAAGCCC	TCAACCTCAC	2340
CAGTCCTGAC	AAAACCAAG	AGTGTCTGGT	GTGTCTAGTA	GCGGGACCCC	CCTACTACGA	2400
AGGGGTTGCG	GTCCTGGTA	CCTACTCCAA	CCATACCTCT	GCTCCAGCCA	ACTGCTCCGT	2460
GGCCTCCCAA	CACAAGTTGA	CCCTGTCGGA	AGTACCGGGA	CAGGGACTCT	GCATAGGAGC	2520
AGTTCCCAA	ACACATCAGG	CCCTATGTA	TACCAACCCAG	ACAAGCAGTC	GAGGGTCCTA	2580
TTATCTAGTT	GCCCCTACAG	GTACCATG	GGCTTGTAGT	ACCGGGCTTA	CTCCATGCA	2640
CTCCACCACC	ATACTGAACC	TTACCACTGA	TTATTGTTG	CTTGTGAAAC	TCTGGCCAAG	2700
AGTCACCTAT	CATTCCCCCA	GCTATGTTA	CGGCTGTTT	GAGAGATCCA	ACCGACACAA	2760
AAGAGAACCG	GTGCGTTAA	CCCTGGCCCT	ATTATTGGGT	GGACTAACCA	TGGGGGAAAT	2820
TGCCGCTGGA	ATAGGAACAG	GGACTACTGC	TCTAATGGCC	ACTCAGCAAT	TCCAGCAGCT	2880
CCAAGCCGCA	GTACAGGATG	ATCTCAGGG	GGTTAAAAAA	TCAATCTCTA	ACCTAGAAAA	2940
GTCCTCTACT	TCCCTGTC	AGTTGTCCT	ACAGAATCGA	AGGGGCCTAG	ACTTGTATT	3000
TCTAAAAGAA	GGAGGCTGT	GTGCTGCTC	AAAAGAAGAA	TGTTGCTTCT	ATGCGGACCA	3060
CACAGGACTA	GTGAGAGACA	GCATGGGAA	ATTGAGAGAG	AGGCTTAATC	AGAGACAGAA	3120
ACTGTTTGTAG	TCAACTCAAG	GATGGTTGA	GGGACTGTT	AACAGATCCC	CTGGTTTAC	3180
CACTTTGATA	TCTACCATTA	GGGGACCCC	CATTGTA	CTAATGATT	TGCTCTTCGG	3240
ACCTCTGATT	CTTAATCGAT	TAGTTCAATT	TGTTAAAGAC	AGGATCTAG	TAGTCCAGGC	3300
TTTAGTCCTG	ACTCAACAT	ACCACCAAGCT	AAAGCCTATA	GAGTACAGGC	CATAGGGCGC	3360
CTAGTGTGTA	CAATTAACTA	TCGGCATAGT	ATACGGCATA	GTATAATACG	ACTCACTATA	3420
GGAGGGCCAC	CATGGCAAG	TTGACCAGTG	CGGTTCCGGT	GCTCACCGCG	CGCGACGTG	3480
CCGGAGCGGT	CGAGTTCTGG	ACCGACCGGC	TCGGGTTCTC	CGGGGACTTC	GTGGAGGACG	3540
ACTTCGCCGG	TGTGGTCCGG	GACGACGTGA	CCCTGTTCT	CAGCGCGTC	CAGGACCAGG	3600
TGGTGGCGGA	CAACACCTG	GCCTGGGTGT	GGGTGCGCGG	CCTGGACGAG	CTGTAACGCC	3660
AGTGGTCGGA	GGTCGTGTCC	ACGAACCTCC	GGGACGCC	CGGGCCGGCC	ATGACCGAGA	3720
TCGGCGAGCA	GCCGTGGGG	CGGGAGTTCG	CCCTGGCGGA	CCGGCCGGCC	AACTCGGTG	3780
ACTTCGTGGC	CGAGGAGCAG	GACTGANNN	CGGACCGGT	GACTGTTAA	CTTGTGTTATT	3840
GCAGCTTATA	ATGGTTACAA	ATAAAGCAAT	AGCATCACAA	ATTTCACAAA	TAAAGCATT	3900
TTTCACTGC	ATTCTAGTTG	TGGTTGTCC	AAACTCATCA	ATGTATCTTA	TCATGTC	3960
ATCCAGATCT	GGGCCATGC	GGCCGCGGAT	CGATNNNNAC	ATGTGAGCAA	AAGGCCAGCA	4020
AAAGGCCAGG	AACCGTAAAAA	AGGCCGCGT	GCTGGCGTT	TTCCATAGGC	TCCGCC	4080

Figure 10. FBdelPMOSAF Sequence

TGACGAGCAT	CACAAAAATC	GACGCTCAAG	TCAGAGGTGG	CGAAACCCGA	CAGGACTATA	4140
AAGATACCAAG	GCGTTTCCCC	CTGGAAGCTC	CCTCGTGCAG	TCTCCTGTTC	CGACCCCTGCC	4200
GCTTACCGGA	TACCTGTCCG	CCTTTCTCCC	TTCCGGAAAGC	GTGGCGCTTT	CTCAATGCTC	4260
ACGCTGTAGG	TATCTCAGTT	CGGTGTAGGT	CGTTCGCTCC	AAGCTGGCT	GTGTGCACGA	4320
ACCCCCCGTT	CAGCCCGACC	GCTGCGCCTT	ATCCGGTAAC	TATCGTCTTG	AGTCCAACCC	4380
GGTAAGACAC	GACTTATCGC	CACTGGCAGC	AGCCACTGGT	AACAGGATTA	GCAGAGCGAG	4440
GTATGTAGGC	GGTGTACAG	AGTTCTTGA	GTTGGTGGCCT	AACACTGGCT	ACACTAGAAG	4500
GACAGTATT	GGTATCTGCG	CTCTGCTGAA	GCCAGTTACC	TCAGGAAAAAA	GAGTTGGTAG	4560
CTCTTGTATCC	GGCAAACAAA	CCACCGCTGG	TAGCGGTGGT	TTTTTGTGTT	GCAAGCAGCA	4620
GATTACGCGC	AGAAAAAAAG	GATCTCAAGA	AGATCCTTG	ATCTTTCTA	CGGGGTCTGA	4680
CGCTCAGTGG	AACGAAAAC	CACGTTAAGG	GATTTGGTC	ATGAGATTAT	AAAAAAGGAT	4740
CTTCACCTAG	ATCCTTTAA	ATTAAAAATG	AAAGTTTAA	TCAATCTAAA	GTATATATGA	4800
GTAAACTTGG	TCTGACAGTT	ACCAATGCTT	AATCAGTGAG	GCACCTATCT	CAGCGATCTG	4860
TCTATTTCGT	TCATCCATAG	TTGCCTGACT	CCCCGTGCG	AGATAACTA	CGATACGGGA	4920
GGGCTTACCA	TCTGGCCCCA	GTGCTGCAAT	GATACCGCGA	GACCCACGCT	CACCGGCTCC	4980
AGATTTATCA	GCAATAAAC	AGCCAGCCGG	AAGGGCCGAG	CGCAGAAGTG	GTCCTGCAAC	5040
TTTATCCGGC	TCCATCCAGT	CTATTAAATTG	TTGCCGGGAA	GCTAGAGTAA	GTAGTTGCC	5100
AGTTAATAGT	TTGCGCAACG	TTGTTGCCAT	TGCTACAGGC	ATCGTGGTGT	CACGCTCGTC	5160
GTTTGGTATG	GCTTCATTCA	GCTCCGGTTC	CCAAACGATCA	AGGCAGGTTA	CATGATCCCC	5220
CATGTTGTGC	AAAAAAGCGG	TTAGCTCCTT	CGGTCCCTCG	ATCGTGTCA	GAAGTAAGTT	5280
GGCCGCAGTG	TTATCACTCA	TGGTTATGGC	AGCACTGCAT	AATTCTCTTA	CTGTCATGCC	5340
ATCCGTAAGA	TGCTTTCTG	TGACTGGTGA	GTACTCAACC	AAGTCATTCT	GAGAATAGTG	5400
TATGCGGCGA	CCGAGTTGCT	CTTGCCCCGC	GTCAATACGG	GATAATACCG	CGCCACATAG	5460
CAGAACTTTA	AAAGTGCTCA	TCATTGGAAA	ACGTTCTTCG	GGGCAGAAAC	TCTCAAGGAT	5520
CTTACCGCTG	TTGAGATCCA	GTTCGATGTA	ACCCACTCGT	GCACCCAAC	GATTTTCAGC	5580
ATCTTTTACT	TTCACCAGCG	TTTCTGGGTG	AGCAAAAACA	GGAAGCAAA	ATGCCGAAA	5640
AAAGGGAATA	AGGGCGACAC	GGAAATGGTG	AATACTCATA	CTCTTCTTT	TCATATATTA	5700
TTGAAGCATT	TATCAGGGTT	ATTGTCAT	GAGCGGATAC	ATATTGAAAT	GTATTTAGAA	5760
AAATAAACAA	ATAGGGGTTCA	CGCGCACATT	TCCCCGAAAAA	GTGCCACCTG	ACGTCTAAGA	5820
AACCATTATT	ATCATGACAT	TAACCTATAAA	AAATAGGCCT	ATCACGAGGC	CCTTCGTCT	5880
CGCCGCTTTC	GGTGATGACG	GTGAAAACCT	CTGACACATG	CAGCTCCGG	AGACGGTCAC	5940
AGCTTGTCTG	TAAGCGGATG	CCGGGAGCAG	ACAAGCCGT	CAGGGCGCGT	CAGCGGGTGT	6000
TGGCGGGTGT	CGGGGCTGGC	TTAACTATGC	GGCATCAGAG	CAGATTGTAC	TGAGAGTGCA	6060
C						6061

Figure 11. FBdelPGASAF Sequence

CATATGCGGGT	GTGAAATACC	GCACAGATGC	GTAAGGAGAA	AATACCGCAT	CAGGCGCCAT	60
TCGCCATTCA	GGCTGCGCAA	CTGTTGGAA	GGGCATCGG	TGCGGGCCTC	TTCGCTATTA	120
CGCCAGCTGG	CGAAAGGGGG	ATGTGCTGCA	AGGCATTAA	GTTGGGTAAC	GCCAGGGTTT	180
TCCCAGTCAC	GACGTTGTAA	AACGACGGCC	AGTGAATTCC	GATTAGTTCA	ATTTGTTAAA	240
GACAGGATCT	CAGTAGTCCA	GGCTTAGTC	CTGACTCAAC	AATACCAACCA	GCTAAAACCA	300
CTAGAATACG	AGCCACAATA	AATAAAAGAT	TTTATTTAGT	TTCCAGAAAAA	AGGGGGGAAT	360
GAAAGACCCC	ACCAAATTGC	TTAGCCTGAT	AGCCGCAGTA	ACGCCATTTC	GCAAGGCATG	420
GAAAATACC	AAACCAAGAA	TAGAGAAGTT	CAGATCAAGG	GCGGGTACAC	GAAAACAGCT	480
AACGTTGGGC	CAAACAGGAT	ATCTGCGGTG	AGCAGTTTCG	GCCCCGGCCC	GGGGCCAAGA	540
ACAGATGGTC	ACCGCGGTT	GGCCCCGGCC	CGGGGCCAAG	AACAGATGGT	CCCCAGATAT	600
GGCCCAACCC	TCAGCAGTT	CTTAAGACCC	ATCAGATGTT	TCCAGGCTCC	CCCAAGGACC	660
TGAAATGACC	CTGTGCTTA	TTTGAATTAA	CCAATCAGCC	TGCTTCTCGC	TTCTGTTCGC	720
GCCTTCTGC	TTCCCGAGCT	CTATAAAAGA	GCTCACAAAC	CCTCACTCGG	CGGCCAGTC	780
CTCCGATAGA	CTGAGTCGCC	CGGGTACCCG	TGTTACCAAT	AAATCCTTT	GCTGTTGCAT	840
CCGACTCGTG	GTCTCGCTGT	TCCTTGGAG	GGTCTCCTCA	GAGTGAATTGA	CTACCCGTCT	900
CGGGGGTCTT	TCATTGGGG	GCTCGTCCGG	GATCTGGAGA	CCCCTGCCCA	GGGACCACCG	960
ACCCACCACC	GGGAGGTAAG	CTGGCCAAGA	TCCCTAAGGT	ACTCGGGTCA	GACAATGGCC	1020
CGGCCTTTGT	TGCTCAGGTA	AGTCAGGGAC	TGGCCACTCA	ACTGGGATA	AATTGGAAGT	1080
TACATTGTGC	GTATAGACCC	CAGAGCTCAG	GTCAGGTAGA	AAGAATGAAC	AGAACAAATTA	1140
AAGAGACCTT	GACCAAATT	GCCTTAGAGA	CCGGTGGAAA	AGACTGGGTG	ACCCCTCCTC	1200
CCTTAGCGCT	GCTTAGGGCC	AGGAATACCC	CTGGCCGGTT	TGGTTTAACT	CCTTATGAAA	1260
TTCTCTATGG	AGGACCACCC	CCCATACTTG	AGTCTGGAGA	AACTTGGGT	CCCGATGATA	1320
GATTCTCCC	TGTCTTATT	ACTCACTAA	AGCCTTGTAGA	AATTGTAAGG	ACCCAAATCT	1380
GGGACCAGAT	CAAAGAGGTG	TATAAGCTG	GTACCGTAAC	AATCCCTCAC	CGGTTCCAGG	1440
TCGGGGATCA	AGTGCTTGT	AGACGCCATC	GACCCAGAG	CCTTGAGCCT	CGGTGGAAAG	1500
GCCCATACCT	GGTGTGCTG	ACTACCCCGA	CCGGGTAAA	AGTCGATGGT	ATTGCTGCCT	1560
GGGTCCATGC	TTCTCACCTC	AAACCTGCAC	CACCTTCGGC	ACCAGATGAG	TCCTGGGAGC	1620
TGAAAAGAC	TGATCATCCT	CTTAAGCTGC	GTATTGGCG	GCGGCGGGAC	GAGTCTGCAA	1680
AATAAGAAC	CCCACCAGCC	CATGACCCTC	ACTTGGCAGG	TACTGTCCC	AACTGGAGAC	1740
GTGTCTGGG	ATACAAAGGC	AGTCCAGCCC	CCTTGGACTT	GGTGGCCAC	ACTTAAACCT	1800
GATGTATGTG	CCTTGGCGGC	TAGCTTGTAG	TCCTGGGATA	TCCCGGGAAC	CGATGTCCTG	1860
TCCTCTAAAC	GAGTCAGACC	TCCGGACTCA	GACTATACTG	CCGCTTATAA	GCAAATCACC	1920
TGGGGAGCCA	TAGGGTGCAG	CTACCTCGG	GCTAGGACTA	GAATGCCAAG	CTCTACCTTC	1980
TACGTATGTG	CCCGGGATGG	CCGGACCCCT	TCAGAAGCTA	GAAGGTGCAG	GGGGCTAGAA	2040
TCCCTATACT	GTAAAAGATG	GGATTGTGAG	ACACGGGGGA	CCGGTTATTG	GCTATCTAAA	2100
TCCTCAAAAG	ACCTCATAAC	TGTAAAATGG	GACCAAAATA	GCGAATGGAC	TCAAAATTT	2160
CAACAGTGT	ACCAGACCGG	CTGGTGTAC	CCCCTTAAAA	TAGATTTCAC	AGACAAAGGA	2220
AAATTATCCA	AGGACTGGAT	AACGGGAAAA	ACCTGGGGAT	TAAGATTCTA	TGTGTCTGGA	2280
CATCCAGGCG	TACAGTTCAC	CATTGCTTA	AAAATCACCA	ACATGCCAGC	TGTGGCAGTA	2340
GGCTCTGACC	TCGTCTTGT	GGAAACAAGGA	CCTCTAGAA	CGTCCCTCGC	TCTCCCACCT	2400
CCTCTTCCCC	CAAGGAAAGC	GCCACCGCCA	TCTCTCCCCG	ACTCTAACTC	CACAGCCCTG	2460
GCGACTAGTG	CACAAACTCC	CACGGTAGAGA	AAAACAATTG	TTACCCCTAA	CACTCCGCCT	2520
CCCACCACAG	GCGACAGACT	TTTGATCTT	GTGCAGGGGG	CCTTCCCTAAC	CTTAAATGCT	2580
ACCAACCCAG	GGGCCACTGA	GTCTTGTGG	CTTGTGGGCTT	CCATGGGCC	CCCTTATTAT	2640
GAAGCAATAG	CCTCATCAGG	AGAGGTGCGC	TACTCCACCG	ACCTTGACCG	GTGCCGCTGG	2700
GGGACCCAAG	GAAAGCTCAC	CCTCACTGAG	GTCTCAGGAC	ACGGGTTGTTG	CATAGGAAAAG	2760
GTGCCCTTTA	CCCATCAGCA	TCTCTGCAAT	CAGACCCSTAT	CCATCAATT	CTCCGGAGAC	2820
CATCAGTATC	TGCTCCCCCTC	CAACCATAGC	TGGTGGGCTT	GCAGCACTGG	CCTCACCCCT	2880
TGCTCTCCA	CCTCAGTTTT	TAATCAGACT	AGAGATTCT	GTATCCAGGT	CCAGCTGATT	2940
CCTCGCATCT	ATTACTATCC	TGAAGAAGTT	TTGTTACAGG	CCTATGACAA	TTCTCACCCC	3000
AGGACTAAAA	GAGAGGCTGT	CTCACTTACC	CTAGCTGTTT	TACTGGGTT	GGGAATCACG	3060
GCGGGAATAG	GTACTGGTC	AACTGCCTTA	ATTAAGGAC	CTATAGACCT	CCAGCAAGGC	3120
CTGACAAGCC	TCCAGATCGC	CATAGATGCT	GACCTCCGGG	CCCTCCAAAGA	CTCAGTCAGC	3180
AAGTTAGAGG	ACTCACTGAC	TTCCCTGTCC	GAGGTAGTGC	TCCAAAATAG	GAGAGGCCCT	3240
GACTTGCTGT	TTCTAAAAGA	AGGTGGCTC	TGTCGGGCCC	TAAAGGAAGA	GTGCTGTTTT	3300
TACATAGACC	ACTCAGGTGC	AGTACGGGAC	TCCATGAAAAA	AACTCAAAGA	AAAACTGGAT	3360
AAAAGACAGT	TAGAGGCCA	GAAAAGCCAA	AACTGGTATG	AAGGATGGTT	CAATAACTCC	3420
CCTTGGTTCA	CTACCTGCT	ATCAACCATC	GCTGGGGCCC	TATTACTCCT	CCTTCTGTTG	3480
CTCATCCTCG	GGCCATGCA	CATCAATCGA	TTAGTTCAAT	TTGTTAAAGA	CAGGATCTCA	3540
GTAGTCCAGG	CTTCTAGTCCT	GACTCAACAA	TACCAACCAGC	TAAAGCCTAT	AGAGTACGAG	3600
CCATAGGGCG	CCTAGTGTG	ACAATTAAATC	ATCGGCATAG	TATACGGCAT	AGTATAATAC	3660
GACTCACTAT	AGGAGGGCCA	CCATGGCCAA	GTTGACCAAGT	GCGGTTCCGG	TGCTCACCCG	3720
GCGCAGCTC	GCCGGAGCGG	TGAGTTCTG	GACCGACCGG	CTCGGGTTCT	CCCGGGACTT	3780
CGTGGAGGAC	GACTTCGCCC	GTGTGGTCCG	GGACGACGTG	ACCCCTGTTCA	TCAGCGCGGT	3840
CCAGGACCAG	GTGGTGCCTG	ACAACACCC	GGCCTGGGTG	TGGGTGCGCG	GCCTGGACGA	3900
GCTGTACGCC	GACTGGTCGG	AGGTGTCGT	CACGAACCTC	CGGGACGCC	CCGGGCGCC	3960
CATGACCGAG	ATCGGGCAGC	ACCCGTGGGG	GCGGGAGTTC	GCCCTGCGCG	ACCCGGCCCC	4020
CAACTGCGTG	CACTTCGTGG	CCGAGGAGCA	GGACTGANNN	NCGGACCGGT	CGACTTGTAA	4080

Figure 11. FBdelPGASAF Sequence

ACTTGTTTAT	TGCAGCTTAT	AATGGTTACA	AATAAAGCAA	TAGCATCACA	AATTCACAA	4140
ATAAAGCATT	TTTTTCACTG	CATTCTAGTT	GTGGTTTGTC	CAAACTCATC	AATGTATCTT	4200
ATCATGTCTG	GATCCAGATC	TGGGCCATG	CGGCCGCGGA	TCGATNNNA	CATGTGAGCA	4260
AAAGGCCAGC	AAAAGGCCAG	GAACCGTAAA	AAGGCCGCGT	TGCTGGCGTT	TTTCCATAGG	4320
CTCCGCCCCC	CTGACCGAGCA	TCACAAAAAT	CGACGCTCAA	GTCAAGGGTG	CGGAAACCCG	4380
ACAGGACTAT	AAAGATACCA	GGC GTTCCC	CCTTGAAGCT	CCCTCGTGC	CTCTCCTGTT	4440
CCGACCCCTGC	CGCTTACCGG	ATACCTGTCC	GCCTTCTCC	CTTCGGGAAG	CGTGGCGCTT	4500
TCTCAATGCT	CACGCTGTAG	GTATCTCAGT	TCGGTGTAGG	TCGTTCGCTC	CAAGCTGGC	4560
TGTGTGCACG	AACCCCCCGT	TCAGCCGAC	CGCTGCGCCT	TATCCGGTAA	CTATCGTCTT	4620
GAGTCCAACC	CGGTAAGACA	CGACTTATCG	CCACTGGCAG	CAGCCACTGG	TAACAGGATT	4680
AGCAGAGCGA	GGTATGTAGG	CGGTGCTACA	GAGTTCTTGA	AGTGGTGGCC	TAACTACGGC	4740
TACACTAGAA	GGACAGTATT	TGGTATCTGC	GCTCTGCTGA	AGCCAGTTAC	CTTCGGAAAA	4800
AGAGTTGGTA	GCTCTTGATC	CGGAAACAA	ACCACCGCTG	GTAGCGGTGG	TTTTTTGTT	4860
TGCAAGCAGC	AGATTACGCG	CAGAAAAAAA	GGATCTCAAG	AAGATCCTT	GATCTTTCT	4920
ACGGGGTCTG	ACGCTCAGTG	GAACGAAAAC	TCACGTTAAG	GGATTTTGGT	CATGAGATTA	4980
TCAAAAGGA	TCTTCACCTA	GATCCTTTA	AATTAAAAAT	GAAGTTTAA	ATCAATCTAA	5040
AGTATATATG	AGTAAACTTG	GTCTGACAGT	TACCAATGCT	TAATCAGTGA	GGCACCTATC	5100
TCAGCGATCT	GTCTATTTCG	TTCATCCATA	GTTCGCTGAC	TCCCCGTCGT	GTAGATAACT	5160
ACGATAACGGG	AGGGCTTACC	ATCTGGCCCC	AGTGCTGCAA	TGATACCGCG	AGACCCACGC	5220
TCACCGGCTC	CAGATTATC	AGCAATAAAC	CAGCCAGCGG	GAAGGGCCGA	GGCAGAAAGT	5280
GGTCCTGCAA	CTTTATCCGC	CTCCATCCAG	TCTATTAAATT	GTGCGGGGA	AGCTAGAGTA	5340
AGTAGTTCGC	CAGTTAATAG	TTTGCACAC	GTGTTGCCA	TTGCTACAGG	CATCGTGGTG	5400
TCACGCTCGT	CGTTTGGTAT	GGCTTCATTC	AGCTCCGGTT	CCCAACGATC	AAGGCAGGTT	5460
ACATGATCCC	CCATGTTGTG	CAAAAAAGCG	GTTAGCTCC	TCGGTCCCTCC	GATCGTTGTC	5520
AGAAGTAAGT	TGGCCGCACT	GTTATCACTC	ATGGTTATGG	CAGCACTGCA	TAATTCTCTT	5580
ACTGTCATGC	CATCCGTAAG	ATGCTTTCT	GTGACTGGT	AGTACTCAAC	CAACTCATTC	5640
TGAGAATAGT	GTATGCGGGC	ACCGAGTGC	TCTTGGCCGG	CGTCAATACG	GGATAATACC	5700
GCGCCACATA	GCAGAACTTT	AAAAGTGC	ATCATTGGAA	AACGTTCTTC	GGGGCGAAAA	5760
CTCTCAAGGA	TCTTACCGCT	GTTGAGATCC	AGTTGATGT	AACCCACTCG	TGCACCCAAC	5820
TGATCTTCAG	CATCTTTAC	TTTCACCAGC	GTTTCTGGGT	GAGCAAAAC	AGGAAGGCAA	5880
AATGCCGCAA	AAAAGGGAAT	AAGGGCGACA	CGGAAATGTT	GAATACTCAT	ACTCTCCCTT	5940
TTCAATATT	ATTGAAGCAT	TTATCAGGGT	TATTGTCCTCA	TGAGCGGATA	CATATTGAA	6000
TGTATTTAGA	AAAATAAAC	AATAGGGGTT	CCGCGCACAT	TTCCCCGAAA	AGTGCCACCT	6060
GACGTCTAAG	AAACCAATTAT	TATCATGACA	TTAACCTATA	AAAATAGGCG	TATCAGGAGG	6120
CCCTTCGTC	TCGCGCGTTT	CGGTGATGAC	GGTGAACACC	TCTGACACAT	GCAGCTCCCG	6180
GAGACGGTCA	CAGCTTGTCT	GTAAGCGGAT	GCCGGGAGCA	GACAAGCCCG	TCAGGGCGCG	6240
TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACATATG	CGGCATCAGA	GCAGATTGTA	6300
CTGAGAGTGC	AC					6312

Figure 12. FBdelPRDSAF Sequence

CATATGCGGT	GTGAAATACC	GCACAGATGC	CTAAGGAGAA	AATACCGCAT	CAGGCGCCAT	60
TCGCCATTCA	GGCTGCGCAA	CTGTTGGAA	GGGCGATCGG	TGCGGGCCTC	TTCGCTATTA	120
CGCCAGCTGG	CGAAAGGGGG	ATGTGCTGCA	AGGCGATTAA	GTTGGGTAAC	GCCAGGGTTT	180
TCCCAGTCAC	GACGTTGTAA	AACGACGGCC	AGTGAATTCC	GATTAGTTCA	ATTTGTTAAA	240
GACAGGATCT	CAGTAGTCCA	GGCTTAGTC	CTGACTCAAC	AATACCACCA	GCTAAAACCA	300
CTAGAATACG	AGCCACAATA	AATAAAAGAT	TTTATTTAGT	TTCCAGAAAA	AGGGGGGAAT	360
GAAAGACCCC	ACCAAATTGC	TTAGCCTGAT	AGCCGCAGTA	ACGCCATTTC	GCAAGGCATG	420
GAAAAAATACC	AAACCAAGAA	TAGAGAAGTT	CAGATCAAGG	GCGGGTACAC	GAAAACAGCT	480
AACGTTGGGC	CAAACAGGAT	ATCTGCGGTG	AGCAGTTTCG	GCCCCGGCCC	GGGGCCAAGA	540
ACAGATGGTC	ACCGCGGTTC	GGCCCCGGCC	CGGGGCCAAG	AACAGATGGT	CCCCAGATAT	600
GGCCCAACCC	TCAGCAGTTT	CTTAAGACCC	ATCAGATGTT	TCCAGGCTCC	CCCAAGGACC	660
TGAAATGACC	CTGTGCTTAA	TTTGAATTA	CCAATCAGCC	TGCTTCTCGC	TTCTGTTTCG	720
GCGCTTCTGC	TTCCCGAGCT	CTATAAAAGA	GCTCACAAAC	CCTCACTCGG	CGGCCAGTC	780
CTCCGATAGA	CTGAGTCGCC	CGGGTACCCG	TGTATCCAAT	AAATCCTCTT	GCTGTTGCAT	840
CCGACTCGTG	GTCTCGCTGT	TCCTTGGAG	GGTCTCCTCA	GAGTGATTGA	CTACCCGTCT	900
CGGGGGTCTT	TCATTTGGGG	GCTCGTCCCG	GATCTGGAGA	CCCCTGCCCC	GGGACCACCG	960
ACCCACCACC	GGGAGGTAAG	CTGGCCAAGA	TCCCCCGGGC	TGCAGGAATT	TATGAAATCC	1020
TTTATGGGGG	ACCCCCCCCCT	TTGTCAACCT	TGCTCAATT	CTTCTCCCCC	TCCGATCCTA	1080
AGACTGATT	ACAAGCCGA	CTAAAAGGGC	TGCAAGGCGT	GCAGGCCAA	ATCTGGACAC	1140
CCCTCGCCGA	ATTGTACCGG	CCAGGACATC	CACAAACTAG	CCACCCATT	CAGGTGGGAG	1200
ACTCCGTGTA	CGTCGCGCGG	CACCGCTCTC	AAGGATTGGA	GCCTCGTTGG	AAGGGACCTT	1260
ACATCGTCCT	GCTGACCACG	CCCACCGCCA	TAAAGGTTGA	CGGGATCGCC	GCCTGGATTC	1320
ACGCATCGCA	CGCCAAGGC	GCCCCAAAAA	CCCCCTGGACC	AGAAAATCCC	AAAACCTGGA	1380
AGCTCCGCCG	TTCGGAGAAC	CCTCTTAAGA	TAAGACTCTC	CCGTGTCGA	CTGCTAATCC	1440
ACCTTGTCCC	TGTACTAAC	CAAAATGAAA	CTCCCAACAG	GAATGGTCAT	TTTATGTTAGC	1500
CTAATAATAG	TTCGGGCAGG	GTTTGACGAC	CCCCGCAAGG	CTATCCGATT	AGTACAAAAAA	1560
CAACATGGTA	AACCATGCGA	ATGCAGCGGA	GGGCAGGTAT	CCGAGGCC	ACCGAACTCC	1620
ATCCAACAGG	TAACTTGCC	AGGCAAGACG	GCCTACTTAA	TGACCAACCA	AAAATGGAAA	1680
TGCAAGTC	CTCCAAAAAT	CTCACCTAGC	GGGGGAGAAC	TCCAGAACTG	CCCCCTGTAAC	1740
ACTTTCCAGG	ACTCGATGCA	CAGTTCTGT	TATACTGAAT	ACCGGCAATG	CAGGCGAATT	1800
AATAAGACAT	ACTACACGGC	CACCTTGCTT	AAAATACGGT	CTGGGAGCCT	CAACGAGGTA	1860
CAGATAATTAC	AAAACCCCAA	TCAGCTCTA	CAGTCCCCCTT	GTAGGGCTC	TATAAATCAG	1920
CCCGTTTGC	GGAGTGCAC	AGCCCCCATC	CATATCTCCG	ATGGTGGAGG	ACCCCTCGAT	1980
ACTAAGAGAG	TGTGGACAGT	CCAAAAAAGG	CTAGAACAAA	TTCATAAGGC	TATGACTCCT	2040
GAACTTCAAT	ACCACCCCTT	AGCCCTGCC	AAAGTCAGAG	ATGACCTTAG	CCTTGATGCA	2100
CGGACTTTG	ATATCCTGAA	TACCACTTT	AGGTTACTCC	AGATGTCAA	TTTTAGCCTT	2160
GCCCAAGATT	GTTGGCTCTG	TTTAAACTA	GGTACCCCTA	CCCCTCTTGC	GATAACCACT	2220
CCCTCTTTAA	CCTACTCCCT	AGCAGACTCC	CTAGCGAATG	CCTCCTGTCA	GATTATACCT	2280
CCCTCTTGG	TTCAACCGAT	GCAGTTCTCC	AACTCGTCT	GTTTATCTTC	CCCTTTTCATT	2340
AACGATAACGG	AACAAATAGA	CTTAGGGC	GTACACCTTTA	CTAAGTCAC	CTCTGTAGCC	2400
AATGTCACTG	GTCCTTTATG	TGCCCTAAC	GGGTCACTC	TCCTCTGTGG	AAATAACATG	2460
GCATACACCT	ATTACCCCCA	AAACTGGACC	AGACTTTGCG	TCCAAGCCTC	CCTCCTCCCC	2520
GACATTGACA	TCAACCCGGG	GGATGAGCCA	GTCCCCATT	CTGCCATTGA	TCATTATATA	2580
CATAGACCTA	AACGAGCTGT	ACAGTTCATC	CCTTTACTAG	CTGGACTGGG	AATCACCGCA	2640
GCATTCAACCA	CCGGAGCTAC	AGGCCTAGGT	GTCTCCGTCA	CCCAGTAC	AAAATTATCC	2700
CATCAGTTAA	TATCTGATGT	CCAAGCTTA	TCCGGTACCA	TACAAGATT	ACAAGACCAG	2760
GTAGACTCGT	TAGCTGAAGT	AGTTCTCAA	AATAGGAGGG	GACTGGACCT	ACTAACGGCA	2820
GAACAAGGAG	GAATTGTTT	AGCCTTACAA	GAAAATGCT	GTTTTATGC	TAACAAGTCA	2880
GGAAATTGTGA	GAAACAAAT	AAGAACCTA	CAAGAAGAAT	TACAAAACG	CAGGGAAAGC	2940
CTGGCAACCA	ACCCCTCTCG	GACCAGGCTG	CAGGGCTTTC	TTCCGTACCT	CCTACCTCTC	3000
CTGGGACCCC	TACTCACCC	CCTACTCTA	CTAACCATTTG	GGCCATGCGT	TTTCAGTCG	3060
CTCATGGCCT	TCATTAATGA	TAGACTTAAT	GTTGTACATG	CCATGGTGC	GGCCCAGCAA	3120
TACCAAGCAC	TCAAAGCTGA	GGAAGAACGT	CAGGATTGAG	GCGCCTAGTG	TTGACAATT	3180
ATCATCGGC	TAGTATACGG	CATAGTATAA	TACGACTCAC	TATAGGAGGG	CCACCATGGC	3240
CAAGTTGACC	AGTGCCTTTC	CGGTGCTCAC	CGCGCGCGAC	GTCGCCGGAG	CGGTCGAGTT	3300
CTGGACCGAC	CGGCTCGGGT	TCTCCCGGG	CTTCGTGGAG	GACGACTTCG	CCGGTGTGGT	3360
CCGGGACGAC	GTGACCCCTG	TCATCAGCGC	GGTCCAGGAC	CAGGTGGTGC	CGGACAACAC	3420
CCTGGCCTGG	GTGTGGGTGC	GGGGCCTGGA	CGAGCTGTAC	GCCGAGTGGT	CGGAGGTCGT	3480
GTCCACGAA	TTCCGGGACG	CCTCCGGGCC	GGCCATGACC	GAGATCGCG	AGCAGCCGTG	3540
GGGGCGGGAG	TTCGCCCTGC	GCGACCCGGC	CGGCAACTGC	GTGCACTTCG	TGGCCGAGGA	3600
GCAGGACTGA	NNNNCCGACC	GGTCGACTTG	TTAACCTTGTT	TATTGCACT	TATAATGGTT	3660
ACAAATAAAG	CAATAGCATC	ACAAATTCA	CAAAATAAGC	ATTTTTTCA	CTGCATTCTA	3720
GTTGTGGTT	GTCCAAAAC	ATCAATGTAT	CTTATCATGT	CTGGATCCAG	ATCTGGGCC	3780
ATGCGGCCG	GGATCGATNN	NNACATGTGA	GCAAAAGGCC	AGCAAAAGGC	CGGAAACCGT	3840
AAAAAGGCCG	CGTTGCTGGC	GTTTTCCAT	AGGCTCCGCC	CCCCTGACGA	GCATCACAAA	3900
AATCGACGCT	CAAGTCAGAG	GTGGCGAAC	CCGACAGGAC	TATAAAAGATA	CCAGGGCGTT	3960
CCCCCTGGAA	GCTCCCTCGT	GGCCTCTCCT	GTTCGGACCC	TGCGCCTTAC	CGGATACCTG	4020
TCCGCTTTTC	TCCCTCGGG	AAGCGTGGCG	CTTCTCAAT	GCTCACGCTG	TAGGTATCTC	4080

Figure 12. FBdelPRDSAF Sequence

AGTCGGTGT	AGGTCGTTCG	CTCCAAGCTG	GGCTGTGTGC	ACGAACCCCC	CGTTCAGCCC	4140
GACCGCTCG	CCTTATCCGG	TAACTATCGT	CTTGAGTCCA	ACCCGGTAAG	ACACGACTTA	4200
TCGCCACTGG	CAGCAGCCAC	TGGTAACAGG	ATTAGCAGAG	CGAGGTATGT	AGGCGGTGCT	4260
ACAGAGTTCT	TGAAGTGGTG	GCCTAACTAC	GGCTACACTA	GAAGGACAGT	ATTGGTATC	4320
TGCGCTCTGC	TGAAGCCAGT	TACCTTCGGA	AAAAGAGTTG	GTAGCTCTTG	ATCCGGCAAA	4380
CAAACCACCG	CTGGTAGCGG	TGGTTTTTT	GTTGCAAGC	AGCAGATTAC	GCGCAGAAAA	4440
AAAGGATCTC	AAGAAGATCC	TTTGATCTTT	TCTACGGGGT	CTGACGCTCA	GTGGAACGAA	4500
AACTCACGTT	AAGGGATTTC	GGTCATGAGA	TTATCAAAAA	GGATCTTCAC	CTAGATCCTT	4560
TTAAATTAAA	AATGAAGTTT	TAAATCAATC	AAAAGTATAT	ATGAGTAAAC	TTGGTCTGAC	4620
AGTTACCAAT	GCTTAATCAG	TGAGGCACCT	ATCTCAGCGA	TCTGTCTATT	TCGTTCATCC	4680
ATAGTTGCCT	GACTCCCCGT	CGTGTAGATA	ACTACGATAC	GGGAGGGCTT	ACCATCTGGC	4740
CCCAGTCTG	CAATGATACC	GCGAGACCCA	CGCTCACCGG	CTCCAGATTT	ATCAGCAATA	4800
AACCAGCCAG	CCGGAAGGGC	CGAGCGCAGA	AGTGGTCTTG	CAACTTTATC	CGCCTCCATC	4860
CAGTCTATTA	ATTGTTGCCG	GGAAAGCTAGA	GTAACTAGTT	CGCCAGTTAA	TAGTTGCGC	4920
AACGTTGTTG	CCATTGCTAC	AGGCATCGTG	GTGTACCGCT	CGTCGTTGG	TATGGCTTCA	4980
TTCAGCTCCG	GTTCCAACG	ATCAAGGCGA	GTTACATGAT	CCCCCATGTT	GTGCAAAAAAA	5040
GCGGTTAGCT	CCTTCGGTCC	TCCGATCGTT	GTCAGAAGTA	AGTTGGCCGC	AGTGTATATCA	5100
CTCATGGTTA	TGGCAGCACT	GCATAATTCT	CTTACTGTCA	TGCCATCCGT	AAGATGCTTT	5160
TCTGTGACTG	GTGAGTACTC	AACCAAGTCA	TTCTGAGAAT	AGTGTATGCG	GCGACCGAGT	5220
TGCTCTTGCC	CGGCGTCAAT	ACGGGATAAT	ACCGCGCCAC	ATAGCAGAAC	TTTAAAGTG	5280
CTCATCATTG	GAAAACGTTG	TTCGGGGCGA	AAACTCTCAA	GGATCTTACC	GCTGTTGAGA	5340
TCCAGTTCGA	TGTAACCCAC	TCGTGCACCC	AACTGATCTT	CAGCATCTT	TACTTTCACC	5400
AGCGTTTCTG	GGTGAGCAAA	AACAGGAAGG	CAAATGCCG	AAAAAAAGGG	AATAAGGGCG	5460
ACACGGAAAT	GTTGAATACT	CATACTCTTC	CTTTTCAAT	ATTATTGAAG	CATTATCATG	5520
GGTTATTGTC	TCATGAGCGG	ATACATATTT	GAATGTATT	AGAAAAATAA	ACAAATAGGG	5580
GTTCGCGCA	CATTTCCCCG	AAAAGTGCCA	CCTGACGTCT	AAGAAACCAT	TATTATCATG	5640
ACATTAACCT	ATAAAAATAG	GCGTATCACG	AGGCCCTTTC	GTCTCGCGG	TTTCGGTGAT	5700
GACGGTGAAA	ACCTCTGACA	CATGCAGCTC	CCGGAGACGG	TCACAGCTTG	TCTGTAAGCG	5760
GATGCCGGGA	GCAGACAAGC	CCGTCAGGGC	GCGTCAGCGG	GTGTTGGCGG	GTGTCGGGGC	5820
TGGCTTAACT	ATGCGGCATC	AGAGCAGATT	GTACTGAGAG	TGCAC		5865

Figure 13. hCMV10A1 Sequence

AGATCTCCCG	ATCCCCATAG	GTCGACTCTC	AGTACAATCT	GCTCTGATGC	CGCATAGTTA	60
AGCCAGTATC	TGCTCCCTGC	TTGTGTGTTG	GAGGTCGCTG	AGTAGTGC	GAGCAAAATT	120
TAAGCTACAA	CAAGGCAAGG	CTTGACCGAC	AATTGCATGA	AGAATCTGCT	TAGGGTTAGG	180
CGTTTGC	TGCTTCGCGA	TGTACGGGCC	AGATATAACG	GTTGACATTG	ATTATTGACT	240
AGTTATTAAT	AGTAATCAAT	TACGGGGTCA	TTAGTTCAT	GCCCATAAT	GGAGTTCCGC	300
GTACATAAAC	TTACGGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CGGCCATTG	360
ACGTCAATAA	TGACGTATGT	TCCCAGTAGA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	420
TGGGTGGACT	ATTTACGGTA	AACTGCCAC	TTGGCAGTAC	ATCAAGTGT	TCATATGCCA	480
AGTACGCC	CTATTGACGT	CAATGACGGT	AAATGGCCCG	CCTGGCATT	TGCCCAGTAC	540
ATGACCTTAT	GGGACTTTCC	TACTTGGCAG	TACATCTACG	TATTAGTCAT	CGCTATTACC	600
ATGGTGTGTC	GGTTTTGGCA	GTACATCAAT	GGGCGTGGAT	AGCGGTTGA	CTCACGGGG	660
TTTCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTG	TTTGGCACCA	AAATCAACGG	720
GACTTCCA	AATGTGCTAA	CAACTCCGCC	CCATTGACGC	AAATGGCGG	TAGGCCTGTA	780
CGGTGGGAGG	TCTATATAAG	CAGAGCTCTC	TGGCTTAAC	GAGAACCCAC	TGCTTAAC	840
GCTTATCGAA	ATGTCGACTG	AGAACTTCAG	GGTGAGTTG	GGGACCCCTG	ATTGTTCTTT	900
CTTTTCGCT	ATTGTAAAAT	TCATGTTATA	TGGAGGGGGC	AAAGTTTCA	GGGTGTTGTT	960
TAGAATGGGA	AGATGTCCT	TGTATCACCA	TGGACCCCTA	TGATAATT	TTTCTTTCA	1020
CTTTCTACTC	TGTTGACAAC	CATTGTC	TCTTATT	TTTCATTT	CTGTAAC	1080
TTCGTTAAC	TTTAGCTTGC	ATTGTAACG	AATTTTAA	TTCAC	TTTATTGTC	1140
AGATTGTAAG	TACTTTCTCT	AATCACTTT	TTTCAAGGC	AATCAGGGTA	TATTATATTG	1200
TACTTCAGCA	CAGTTTTAGA	GAACAATTGT	TATAATTAAA	TGATAAGGT	GAATATTCT	1260
GCATATAAAT	TCTGGCTGGC	GTGGAAATAT	TCTTATTG	AGAAACAACT	ACATCCTGGT	1320
CATCATCTG	CCTTCTCTT	TATGGTAC	ATGATATACA	CTGTTGAGA	TGAGGATAAA	1380
ATACTCTGAG	TCCAAACCGG	GCCCCCTCGC	TAACCATGTT	CATGCC	TCTTTCTC	1440
ACAGCTCTG	GGCAACGTGC	TGGTTGTTG	GCTGCTCAT	CATTG	AGGATCGGCC	1500
GGAACAGCAT	CAGGACCGAC	ATGGAAGGT	CAGCGTCTC	AAAACCC	AAAGATAAGA	1560
TTAACCCGTG	GAAGTCCTTA	ATGGTCATGG	GGGTCTATT	AAGAGTAGG	ATGGCAGAGA	1620
GCCCCCATCA	GGTCTTAAT	GTAACCTGGA	GAGTCACCAA	CCTGATGACT	GGCGTACCG	1680
CCAATGCCAC	CTCCCTTTA	GGAACTGTAC	AAGATGCC	CCCAGGATTA	TATTTGATC	1740
TATGTGATCT	GGTCGGAGAA	GAGTGGGACC	CTTCAGACCA	GGAACCATAT	GTCGGGTATG	1800
GCTGCAAATA	CCCCGGAGGG	AGAAAGCGGA	CCCGGACTTT	TGACTTTAC	GTGTGCCCTG	1860
GGCATACCGT	AAAATCGGGG	TGTGGGGGC	CAAGAGAGG	CTACTGTG	GAATGGGTT	1920
GTGAAACACC	CGGACAGGCT	TACTGGAAGC	CCACATC	ATGGGACCTA	ATCTCCCTA	1980
AGCGCGGTAA	CACCCCTGG	GACACGGGAT	GCTCC	GGCTTG	CCCTGCTACG	2040
ACCTCTCCAA	AGTATCCAAT	TCCTTCAAG	GGGCTACTCG	AGGGG	TGCAACCC	2100
TAGTCCTAGA	ATTCACTGAT	GCAGGAAAAA	AGGCTATTG	GGACGGG	AACTCGTGG	2160
GACTGAGACT	GTACCGGACA	GGAACAGATC	CTATTACCAT	GTTCTCC	ACCCGCCAGG	2220
TCCTCAATAT	AGGGCCCCG	ATCCCCATTG	GGCCTAATCC	CGT	GATCACTAC	2280
CCCCCTCCCG	ACCCGTGCAG	ATCAGGCTCC	CCAGGCTC	TCAGC	CCTACAGGCG	2340
CAGCCTCTAT	AGTCCCTGAG	ACTGCCAAC	CTTCTCAAC	ACCTGGG	GGAGACAGGC	2400
TGCTAACCT	GGTAGAAGGA	GCCTATCAGG	CGCTTAAC	ACCAATCCC	GACAAGACCC	2460
AAGAATGTTG	GCTGTGCTTA	GTGTCGGGAC	CTCCTTATT	CGAAGGAGTA	GGGTCGTG	2520
GCACCTATAC	CAATCATTCT	ACCGCCCCGG	CCAGCTGTAC	GGCCACTT	CAACATAAGC	2580
TTACCTATC	TGAAGTGACA	GGACAGGGCC	TATGCTATGG	AGCACTAC	AAAACCTACC	2640
AGGCCTTATG	TAACACCAAC	AAAAGTGGCG	GCTCAGGATC	CTACTAC	GGAGCACC	2700
CTGGAACAAT	GTGGGCTTGT	AGCACTGGAT	TGACTCC	CTTGTCC	ACCGATGCTCA	2760
ATCTAACCAAC	AGACTATTGT	GTATTAGTTG	AGCTCTGGCC	CAGAATAATT	TACCACTCCC	2820
CCGATTATAT	GTATGGTCAG	CTTGAACAGC	GTACCAAATA	TAAGAGGGAG	CCAGTATCGT	2880
TGACCCCTGGC	CCTTCTGCTA	GGAGGATTAA	CCATGGGAGG	GATTG	CAGCTGA	2940
CGGGGACCAC	TGCCCTAAC	AAAACCC	AGTTGAGCA	GCTTCACGCC	GCTATCCAGA	3000
CAGACCTCAA	CGAAGTCGAA	AAATCAATT	CCAACCTAGA	AAAGTC	ACCTCGTTG	3060
CTGAAGTACT	CCTACAGAAC	CGAAGAGGCC	TAGATTG	CTTCCTAA	GAGGGAGGTC	3120
TCTGCGCAGC	CCTAAAAGAA	GAATGTTG	TTTATG	CCACACGGG	CTAGT	3180
ACAGCATGGC	CAAACATAGG	AAAAGGCTT	ATCAGAGACA	AAAAC	ACTATTG	3240
AAGGTTGGTT	CGAAGGGCAG	TTTAATAGAT	CCCCCTGGT	TACCACT	AGTCAGGCC	3300
TCATGGGACC	TCTAATAGTA	CTCTTACTGA	TCTTACT	TGGACCT	ATCTCCACCA	3360
GATTAGTTCA	ATTGTTAAA	GACAGGATCT	CAGTAGTCC	GGCTT	AGTC	3420
AATACCACCA	GCTAAAGCCT	ATAGAGTACG	AGCCATAGGG	CGCCTAGT	TGACAATTAA	3480
TCATCGGCAT	AGTATAACGGC	ATAGTATAAT	ACGACTCACT	ATAGGAGG	CACCATGGCC	3540
AAGTTGACCA	GTGCCGTTCC	GGTGCTCACC	GCGCGCAGC	TCGCGGAGC	GGTCGAGTTC	3600
TGGACCGACC	GGCTCGGGTT	CTCCCGGGAC	TTCGTGAGG	ACGACTC	CGGTGTGGTC	3660
CGGGACGACC	TGACCCCTGTT	CATCAGGCCG	GTCCAGGACC	AGGTGGT	GGACAACACC	3720
CTGGCCTGGG	TGTGGGTGCG	CGGCCTGGAC	GAGCTGTACG	CCGAGTGG	GGAGGTG	3780
TCCACGAACT	TCCGGGACG	CTCCGGGCCG	GCCATGACCG	AGATC	GGCG	3840
GGGCGGGAGT	TCGCCCCG	CGACCCGGCC	GGCAACTGCG	TGCACTTC	GGCCGAGGAG	3900
CAGGACTGAN	NNNCGGACCG	GTCGA				3925